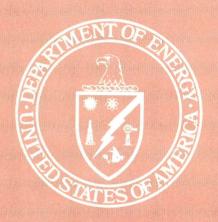
DOE/EIA-0035/9 NTISUB/D/127-009 September 1978

Monthly Energy Review



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Feature articles appearing in previous issues:

Energy Consumption-March 1975

Nuclear Power-April 1975

The Price of Crude Oil-June 1975

U.S. Coal Resources and Reserves-July 1975

Propane, A National Energy Resource— September 1975

Short-Term Energy Supply and Demand Forecasting at FEA-October 1975

Curtailments of Natural Gas Service—January 1976

Home Heating Conservation Alternatives and the Solar Collector Industry-March 1976

Trends in United States Petroleum Imports-September 1976

Crude Oil Entitlements Program—January 1977

Motor Gasoline Supply and Demand—July 1977

Short-Term Petroleum Supply and Demand— May 1978

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Overview

During the month of June, domestic production of energy exceeded the level for June 1977. June 1978 production totaled 5.3 quadrillion Btu (or 30.5 million barrels per day of crude oil equivalent*). For the first 6 months of 1978 domestic production of energy was down 2.0 percent from the same period in 1977.

Domestic consumption of energy during June was up 2.4 percent from the June 1977 level. For the first 6 months of 1978 domestic consumption was 4 percent higher than the 1977 level.

Imports of fossil fuels for June 1978 totaled 1.5 quadrillion Btu (or 8.4 million barrels per day of crude oil equivalent*). For the first half of 1978 total imports of fossil fuels were down 12.4 percent from the previous year.

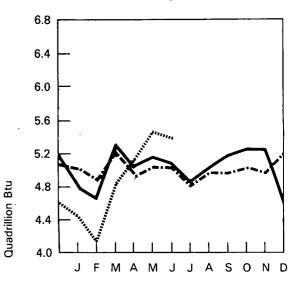
World crude oil production averaged 58.9 million barrels per day in June 1978, 49.3 percent of which was produced by OPEC nations.

Part 1

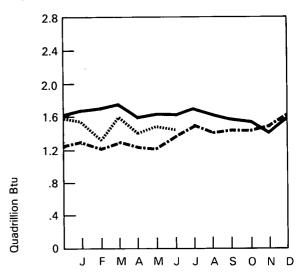
Overview

^{*}One barrel of crude oil contains approximately 5.8 million Btu.

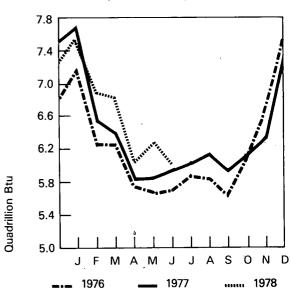
		Domestic Production of Energy*	Imports of Fossil Fuels**	Domestic Consumption of Energy***	Exports of Fossil Fuels****
		Qu	adrillion Btu		
1972	TOTAL	R62.798	R11.328	71.615	R2.088
197 3	TOTAL	R62.421	R14.552	74.588	R2.026
1974	TOTAL	R61.203	R14.234	72.728	2.198
1975	TOTAL	R60.014	R13.962	70.648	2.138
1976	January February March April May June July August September October November December TOTAL January February March April May June July August September October November December	R5.082 R4.864 R5.218 R4.945 R5.052 R5.046 R4.960 R4.960 R4.954 R5.035 R4.957 R5.179 R60.097 R4.789 R4.645 R5.321 R5.003 R5.150 R5.067 R4.832 R5.032 R5.189 R5.252 R5.247 R4.616 R60.142	R1.307 R1.225 R1.301 R1.249 R1.232 R1.394 R1.507 R1.425 R1.472 R1.462 R1.504 R1.623 R16.701 R1.696 R1.712 R1.780 R1.638 R1.633 R1.715 R1.638 R1.638 R1.588 R1.588 R1.588 R1.588 R1.588 R1.588 R1.588	7.188 6.267 6.260 5.736 5.664 5.697 5.891 5.835 5.613 6.125 6.608 7.524 74.409 7.683 6.502 6.397 5.816 5.825 5.922 6.028 6.125 5.919 6.111 6.326 7.281	.134 .130 .148 .203 .193 .222 .183 .164 .196 .201 .214 .180 2.170 .100 .127 .135 .197 .210 .211 .195 .195 .192 R.178 .171 .165
1978	January February March April May June	R4.455 R†4.152 R†4.866 R†5.178 R†5.497 R†5.320	R1.547 R†1.373 R†1.600 R†1.402 R†1.437 R†1.457	7.554 †6.909 R†6.796 †6.073 R†6.273 †6.062	.076 .055 .062 NA NA NA
	TOTAL (Year to date)	29.468	8.816	39.666	.193



Imports of Fossil Fuels



Domestic Consumption of Energy



NA = Not available.

Source: Energy Information Administration (EIA) calculations based on data appearing elsewhere in this publication.

^{*}See Explanatory Note 1.

**See Explanatory Note 2.

***See Explanatory Note 3.

****See Explanatory Note 4.

[†]Preliminary data.

^{††}Partially estimated.

R=Revised data.

Crude Oil and Refined Petroleum Products

Domestic crude oil production averaged 8.9 million barrels per day in July*, 10.7 percent higher than in July 1977. The average for the first seven months of 1978 was 8.6 million barrels per day, 7.7 percent above the January through July 1977 average.

Total petroleum imports averaged 7.9 million barrels per day in July 1978**, 13 percent less than the July 1977 rate. Imports averaged 7.8 million barrels per day over the first seven months of 1978, 13.4 percent less than over the first seven months of 1977.

Total domestic demand for petroleum products averaged 18.3 million barrels per day in July, 4.3 percent above the rate in July 1977. The major components of domestic demand in July were: motor gasoline (43.8%), residual fuel oil (14.6%), and distillate fuel oil (14.1%). Total domestic demand averaged 19.1 million barrels per day over the first seven months of 1978, 3.5 percent higher than over the first seven months of 1977.

Preliminary statistics indicate that motor gasoline demand averaged 8 million barrels per day in July 1978, 7.8 percent above the rate of last July. The January through July average was 7.4 million barrels per day, 4.1 percent above the average for the first seven months of 1977. Motor gasoline stocks measured 215.9 million barrels at the end of July, 16.4 percent below a year ago and 4.9 percent below the level two years ago.

Distillate fuel oil demand averaged 2.6 million barrels per day in July, 1.4 percent higher than a year ago. The average for the January through July period of 1978 was 3.5 million barrels per day, 2.5 percent above the January through July 1977 average.

Residual fuel oil demand averaged 2.7 million barrels per day in July, 4.6 percent less than a year ago. The average over the January through July period of 1978 was 3.1 million barrels per day, the same as the January through July 1977 average.

Strategic Petroleum Reserve

Crude oil shipments totaling 4.8 million barrels were delivered in July 1978 for the Strategic Petroleum Reserve (SPR) at an average cost of \$14.52 per barrel (including transportation fees). Cumulative SPR deliveries since July 1977 now total 34.8 million barrels.

^{*}July 1978 estimates are based on preliminary data from the American Petroleum Institute and will be revised to conform with data from the EIA Petroleum Reporting System as available.

^{**}Excludes crude petroleum imported for the Strategic Petroleum Reserve.

Crude Oil

		Crude Input to Refineries	Domestic Production ¹	Crude Oil Imports ^{1,2}	Strategic Petroleum Reserve (SPR) Imports	Exports	Crude Oil Stocks ^{1,3}	Strategic Petroleum Reserve (SPI Stocks
			Thousa	nds of barrels	per day		Thous	ands of barrels
1972	AVERAGE	11,696	9,441	2,216		1	4246,395	
197 3	AVERAGE	12,431	9,208	3,244		2	4242,478	
1974	AVERAGE	12,133	8,774	3,477		3	4265,020	
1975	AVERAGE	12,442	8,375	4,105		6	4271,354	
1976	January	12,560	8,232	4,594		0	289,296	
	February	12,834	8,231	4,208		0	277,414	
	March	12,877	8,232	4,738		1	283,112	
	April	12,727	8,077	4,790		0 .	286,628	
	May	12,920	8,125	4,669		0	283,982	
	June	13,799	8,094	5,628		0	281,715	
	July	13,901	8,127	5,792		0	282,599	
	August	13,888	8,111	5,556		12	277,272	
	September	13,716	8,150	5,875		Ō	284,357	
	October	13,319	8,063	5,689		18	297,683	
	November	14,101	8,080	5,946		30	298,836	
	December	14,333	8,061	5,925		34	285,471	
	AVERAGE	13,416	8,132	5,287		8 .		
1977	January	14,140	7,790	6,288		13	294,037	
	February	14,740	8,067	6,652		59	291,387	
	March	14,270	8,022	6,633		32	299,464	
	April	14,185	8,079	6,785		17	318,588	
	Mav	14,605	8,009	6.821		89	328,559	
	June	14,867	8,039	6,997		10	333,635	
	July	14,884	8.040	7,021		53	335,1 9 3	
	August	14,645	8,244	6,416		37	338,300	
	September	14,930	8,416	6,429		91	334,180	
	October	14,658	8,508	6,270	93	38	340,517	2,646
	November	14,636	8,513	6,230	73	45	345,098	5,084
	December	14,749	8,423	6,049	79	69	339,813	7,826
	AVERAGE	14,608	8,179	6,548	21	50		
1978	January	14,139	8,347	5,974	114	98	340,082	11,106
	February	13,959	8,373	5,551	109	8	335,794	14,276
	March	R14,141	R8,807	R5,981	132	60	R345,333	18,437
	April	13,943	8,696	5,331	108	NA	333,436	21,826
	May	14,962	8,586	5,452	133	NA	321,637	25,629
	June	R14,776	R8,608	R6,221	149	NA	R324,944	30,140
	July	15,069	8,904	6,212	NA	NA	335,247	NA
	AVERAGE (Year to date	14,434 e)	8,620	5,822	124	57		

¹See Definitions.

²Excludes SPR imports.

³Excludes SPR stocks.

⁴Total as of December 31.

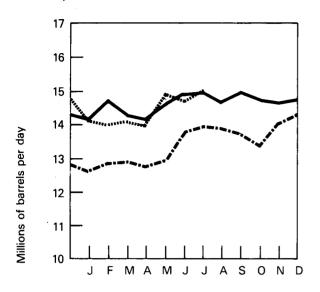
R=Revised data.

NA = Not available.

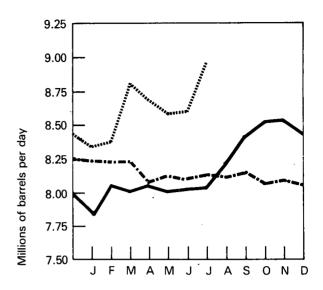
Sources: 1972 through 1976: Bureau of Mines (BOM) Mineral Industry Surveys, "Petroleum Statement, Annual;" January 1977 through A 1977: Bureau of Mines Mineral Industry Surveys, "Petroleum Statement, Monthly;" May 1977 through March 1978: Energy Informa Administration (EIA) Energy Data Reports, "Petroleum Statement, Monthly;" April 1978 through June 1978: EIA "Monthly Petrole Statistics Report;" July 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bullet SPR Impacts which is from DOE. except for July SPR Imports which is from DOE.

Crude Oil

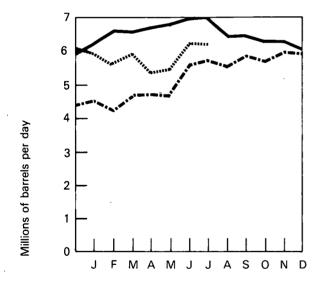
Crude Input to Refineries



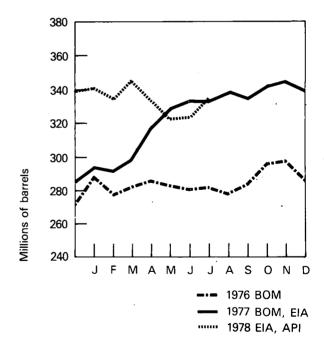
Domestic Production







Stocks



Total Refined Petroleum Products

Total Petroleum Imports (Crude Oil and Refined Products)

		Domestic Demand	imports*	Exports	Total Imports (Excluding SPR)	SPR Imports	Total Imports (Including SPR)
		Thousand	s of barrels pe	r day	Thousands of	of barrels pe	r day
1972	AVERAGE	16,367	2,525	222	4,741		
1973	AVERAGE	17,308	3,012	229	6,256		
1974	AVERAGE	16,653	2,635	218	6,112		
1975	AVERAGE	16,322	1,951	204	6,056		
1976	January	18,647	2,119	156	6,714		
	February	17,509	2,504	241	6,712		
	March	17,302	1,949	183	6,687		
	April	. 16,672	1,806	222	6,595		
	May	15,977	1,654	179	6,323		
	June	16,825	1,847	213	7,474		
	July	16,607	2,092	242	7,884		
	August	16,642	1,827	208	7,382		
	September	16,837	2.050	196	7,924		
	October	17,090	1,847	180	7,536		
	November	18,847	2,115	318	8,060		
	December	20,560	2,522	246	8,447		
	AVERAGE	17,461	2,026	215	7,313		
1977	January	20,481	2,594	179	8,882		
	February	20,427	3,278	175	9,930		
-	March	18,056	2,610	175	9,243		
	April	17,570	1,886	207	8,671		
	May	16,960	1,753	199	8,574		
	June	18,048	1,872	215	8,869		
	July	17,549	2,021	201	9,042		
	August	18,009	2,175	193	8,591		
	September	17,733	2,136	203	8,565		
	October	17,831	1,862	170	8,132	93	8,225
	November	18,440	1,814	190	8,044	73	8,117
	December	20,046	2,183	206	8,232	79	8,311
	AVERAGE	18,418	2,176	193	R8,724	21	8,744
1978	January	19,691	2,065	158	8,040	114	8,154
	February	20,874	2,337	200	7,887	109	7,996
	March	R19,627	R2,323	209	R8,304	132	R8,436
	April	18,041	2,102	NA	7,433	108	7,541
	May	18,598	1,879	NA	7,331	133	7,464
•	June	R18,487	R1,605	NA	R7,826	149	R7,975
	July	18,295	1,652	NA	7,864	NA	NA
	AVERAGE (Year to date)	19,070	1,991	189	7,813	124	7,928

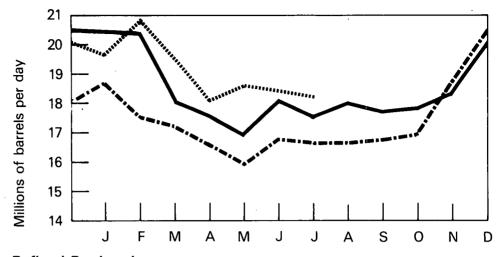
^{*}See Definitions.

R=Revised data.

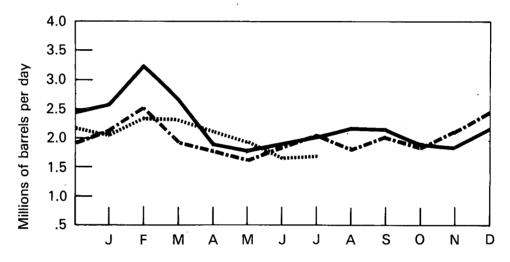
NA=Not available.

Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through March 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" April 1978 through June 1978: EIA "Monthly Petroleum Statistics Report;" July 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin," except for July SPR Imports which is from DOE.

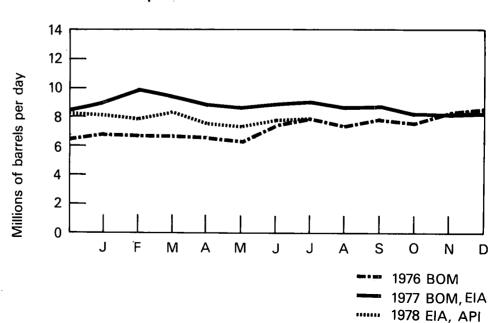
Total Refined Product Domestic Demand



Refined Product Imports



Total Petroleum Imports



Direct and Indirect* U.S. Petroleum Imports from OPEC Countries

	Algeria	Indonesia	Iran	Libya	Nigeria	Saudi Arabia	United Arab Emirates	Venezuela	Other OPEC**	Total OPEC	Arab Members of OPEC
				T	housands	of barrels	per day				
1 97 3											
Direct	134.2	212.7	222.7	164.3	458.9	487.3	70.6	1,124.7	106.5	2,981.9	914.4
Indirect	17.0	25.0	211.0	144.0	149.0	253.0	13.0	509.0	88.0	1,409.0	463.0
TOTAL	151.2	237.7	433.7	308.3	607.9	740.3	83.6	1,633.7	194.5	4,390.9	1,377.4
1974											
Direct	190.2	300.1	468.8	4.4	697.6	460.6	70.5	979.3	88.3	3,259.8	748.5
Indirect	16.9	40.8	262.2	35.9	214.6	214.6	17.3	478.5	128.7	1,409.5	357.9
TOTAL	207.1	310.9	731.0	40.3	912.2	675.2	87.8	1,457.8	217.0	4,669.3	1,106.4
1975											
Direct	281.5	388.4	280.4	232.0	761.5	715.0	116.7	697.6	116.1	3,589.2	1,381.3
Indirect	6.7	49.3	244.4	97.3	76.3	176.6	37.5	332.5	143.2	1,163.8	408.8
TOTAL	288.2	437.7	524.8	329.3	837.8	891.6	154.2	1,030.1	259.3	4,753.0	1,790.1
1976											
Direct	428.3	537.4	298.5	453.3	1,025.2	1,229.8	255.2	699.2	134.0	5,060.9	2,421.0
Indirect	10.0	32.0	248.0	76.0	94.0	136.0	68.0	273.0	82.0	1,019.0	352.0
TOTAL	438.3	569.4	546.5	529.3	1,119.2	1,365.8	323.2	972.2	216.0	6,079.9	2,773.0
1977											
Direct											
January	493.0	619.2	396.8	627.0	1,285.8	1,328.0	319.5	841.8	324.2	6,236.0	3,000.0
February	666.1	570.3	412.4	638.0	1,265.1	1,441.8	316.7	920.6	241.0	6,472.0	3,141.1
March	459.8	567.0	735.0	701.2	1,300.0	1,371.6	369.5	664.3	184.3	6,352.7	3,022.1
April	660.7	523.9	517.2	782.9	1,242.4	1,437.4	323.5	663.3	250.5	6,401.8	3,363.2
May	392.8	512.7	539.3	784.1	1,072.3	1,724.1	237.1	534.4	435.9	6,232.7	3,451.3
, June	436.6	671.6	553.0	827.1	1,190.8	1,432.7	438.6	668.7	343.5	6,562.6	3,374.1
July	573.9	519.0	857.3	763.4	1,194.7	1,369.8	286.1	652.8	350.8	6,567.8	3,232.1
August	632.2	552.8	500.1	640.0	960.5	1,449.4	308.6	744.4	276.9	6,064.9	3,169.8
September	550.8	391.0	448.9	679.2	1,084.8	1,487.4	348.4	744.8	201.0	5,936.3	3,215.1
October	626.2	461.0	413.0	690.5	1,104.2	1,303.3	246.9	586.7	272.0	5,703.9	2,998.1
November	590.6	514.6	422.7	840.1	943.0	1,119.2	420.1	515.1	285.0	5,650.4	3,162.5
December	553.0	492.7	549.0	604.4	987.2	1,064.8	390.5	724.2	289.1	5,654.9	2,835.4
Total Direct	552.0	532.8	530.2	714.7	1,135.1	1,377.0	333.4	687.0	288.3	6,150.5	3,162.7
Indirect	11.1	52.2	297.9	133.8	105.7	208.1	98.5	221.0	100.5	1,228.8	530.8
TOTAL	563.1	585.0	828.1	848.5	1,240.8	1,585.1	431.9	908.0	388.8	7,379.3	3,693.5
1978											
Direct	000.0	400 =	001 5	FC0 0	000.0	4 400 0	240.7	600.4	227.0	E 640 E	2.025.4
January	682.3	462.7	681.5	559.9	822.9	1,198.2	348.7	628.4	227.9	5,612.5	2,925.1
February	635.9	393.5	526.2	575.8	758.4	982.4	485.8	750.5	242.3	5,350.8	2,792.3
March	709.5	R579.4		R589.9		R1,125.6	296.2	R893.6	R240.6	R5,926.9	R2,884.0
April	597.6	503.7	408.6	601.8	584.3	986.7	435.0	631.5	R220.2	4,969.4	2,732.3
May	667.1	517.0	730.4	498.7	790.2	786.3	404.5	524.9	84.4	5,003.5	2,396.7
June	753.5	632.7	508.5	630.3	851.7	1,111.3	342.7	481.0	235.3	5,547.0	3,001.6
Total Direct Indirect	674.9 9.4	516.3 59.0	569.0 350.7	575.6 131.8	793.4 109.9	1,032.8 186.9	383.8 94.2	651.1 220.4	207.2 72.8	5,404.1 1,235.1	2,787.7 469.6
TOTAL	684.3	575.3	919.7	707.4	903.3	1,219.7	478.0	871.5	280.0	6,639.2	3,257.3
(6 months)	UU7.3	575.5	513.7	, 5, .4		.,	7, 3,0			U,UUU.E	0,207.0

^{*}Indirect imports refer to U.S. imports of petroleum products, primarily from Caribbean and European areas, that have been refined from crude oil produced in other areas. U.S. imports of these products have been prorated to each OPEC country of origin based on the share of total crude oil supply in the Caribbean and European areas which was imported from each OPEC country.

^{**}Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
Sources: Direct Imports—Bureau of Mines Mineral Industry Surveys, "Petroleum Statement, Monthly" and "PAD Districts Supply/Demand, Monthly" through April 1977; EIA Energy Data Reports, "PAD Districts Supply/Demand, Monthly" for May 1977 through March 1978; EIA "Monthly Petroleum Statistics Report" for April 1978 through June 1978; Indirect Imports—EIA estimates.

U.S. Petroleum Imports from Non-OPEC Sources

	Bahamas	Canada	Mexico	Netherlar Antilles	nds Puerto Rico	Trinidad and Tobago	Virgin Islands	Other	Total
				Thousan	ds of barrels	per day			
1973	170.8	1,312.9	15.2	573.6	99.3	250.6	329.2	523.5	3,274.2
1974	159.3	1,067.6	8.4	509.6	90.4	241.2	391.7	384.2	2,852.4
1975	152.0	845.2	71.4	323.6	89.7	240.9	406.5	306.1	2,435.4
1976									
January	134.1	681.7	58.7	291.7	71.0	343.2	468.4	321.5	2,370.3
February	127.6	644.9	70.0	262.4	122.2	326.3	462.3	251.7	2,267.4
March	90.4	590.2	108.0	328.7	114.0	315.6	424.5	367.5	2,338.9
April	131.9	578.4	112.0	274.9	68.5	291.9	341.2	404.5	2,203.3
May	95.2	614.9	89.3	214.1	70.6	257.5	388.5	316.4	2,046.5
June	104.2	653.3	79.5	190.4	54.3	319.3	427.5	373.5	2,202.0
July	112.8	581.7	79.4	259.1	77.9	279.2	386.5	434.0	2,210.6
August	98.5	580.9	88.1	268.7	81.5	163.6	437.2	428.5	2,147.0
September	143.1	564.8	84.8	273.3	104.1	182.6	408.5	453.1	2,214.3
October	78.3	562.0	79.2	239.0	92.2	215.2	460.5	422.8	2,149.2
November	140.4	561.8	132.1	267.6	104.1	254.3	454.4	333.2	2,247.9
December	141.5	578.3	65.5	400.3	98.5	324.2	408.4	405.0	2,421.3
TOTAL	116.5	599.3	87.1	274.6	88.1	272.6	422.3	373.5	2,234.0
1977									
January	170.0	505.9	97.9	304.1	82.5	316.2	619.6	549.8	2,646.0
February	289.5	605.1	168.1	406.6	86.3	406.3	548.8	947.8	3,458.5
March	200.4	561.7	171.5	257.3	97.4	286.5	505.5	810.4	2,890.7
April	130.7	506.1	155.2	110.1	85.3	210.5	409.0	662.4	2,269.3
May	138.5	437.8	173.6	153.7		308.1	376.2	647.6	2,341.3
June	137.7	493.0	180.7	196.2	89.4	271.1	322.0	616.0	2,306.1
July	169.8	482.9	158.7	239.0	129.7	275.8	477.7	540.1	2,473.7
August	168.8	501.5	213.6	224.5	88.4	281.2	461.6	586.9	2,526.5
September	140.2	528.5	167.6	201.1	156.7	250.9	433.9	750.1	2,629.0
October	122.3	487.0	246.6	197.4	114.1	288.4	451.9	612.9	2,520.6
November	184.4	504.6	230.7	93.3	98.7	237.2	462.8	654.7	2,466.4
December	159.8	580.1	186.5	191.9	97.8	305.5	555.6	579.2	2,656.4
TOTAL	166.9	515.5	179.3	213.7	105.3	286.0	466.2	660.7	2,593.6
1978									
January	167.5	479.7	236.4	215.2	98.0	295.0	466.0	583.3	2,541.1
February	217.6	507.5	221.9	225.2	99.6	295.8	490.6	587.2	2,645.4
March	211.5	R436.9	230.9	238.1	63.6	R274.2	492.8	R560.8	R2,508.8
April	140.9	408.2	231.4	255.9	95.0	302.1	371.9	R766.7	2,572.1
May	193.0	480.8	257.6	230.6	73.6	188.8	304.0	732.5	2,460.9
June	143.2	466.0	287.1	210.6	117.5	188.8	324.5	690.0	2,427.7
TOTAL (6 months)	178.7	462.7	244.4	229.3	90.9	256.9	407.6	653.8	2,524.3

R=Revised data.

R=Revised data.

Source: Bureau of Mines Mineral Industry Surveys, "Petroleum Statement, Monthly" and "PAD Districts Supply/Demand, Monthly," through April 1977; EIA Energy Data Reports, "PAD Districts Supply/Demand Monthly" for May 1977 through March 1978; and EIA "Monthly Petroleum Statistics Report" for April 1978 through June 1978.

Motor Gasoline

Domestic Demand

		_		_				
		Total	Unleaded	Unleaded Percent of Total	Production*	Imports	Exports	Stocks*
				Thousands o	of barrels per da	y		Thousands of barrels
1972	AVERAGE	6,376	NA	NA	6,281	68	1	**212,770
1973	AVERAGE	6,674	NA	NA	6,527	134	4	**209,395
1974	AVERAGE	6,537	NA NA	NA	6,358	204	2	**218,346
1975	AVERAGE	6,675	NA NA	NA	6,518	184	2	**234,925
		-						·
1976	January	6,398	NA 1 117	NA 17.8	6,483	92 84	0 6	240,464 248,854
	February	6,263	1,117	17.8	6,473	123	6	239,049
	March	6,890	1,456	21.1	6,455	99	8	223,965
	April	7,159	1,312	18.3	6,562	112	1	225,965
	May	6,853	1,393	20.3	6,775	188	Ó	225,365
	June	7,482	1,549	20.7	7,303 7,174	190	1	226,922
	July	7,315	1,594	21.8 21.7	7,17 4 7,149	141	7	230,578
	August	7,168	1,553		•	171	ó	229,751
	September	7,079	1,628	23.0 22.4	6,878 6,678	138	0	226,300
	October	6,929	1,552 1,604	22.4	6,938	146	1	227,742
	November	7,038	1,797	25.2	7,176	84	7	231,387
	December	7,138	1,797	25.2	7,170	04	,	. 251,507
	AVERAGE	6,978	1,508	21.6	6,838	131	3	
1977	January	6,466	1,549	24.0	6,934	222	8	252,608
	February	6,897	1,773	25.7	6,817	184	2	255,519
	March	6,899	1,657	24.0	6,864	245	0	262,118
	April	7,348	1,863	25.4	6,968	269	1	258,831
	May	7,034	1,803	25.6	6,950	202	2	262,498
	June	7,595	2,142	28.2	7,145	246	1	256,389
	July	7,441	2,146	28.8	7,248	248	1	258,152
	August	7,419	2,096	28.3	7,191	187	1	256,904
	September	7,317	2,080	28.4	7,062	220	1	255,859
	October	7,132	2,135	29.9	6,932	179	1	255,194
	November	7,191	2,060	28.6	7,123	179	2	258,537
	December	7,373	2,400	32.6	7,146	196	1	257,578
	AVERAGE	7,176	1,976	27.5	7,033	215	2	
1978	January	6,670	2,097	31.4	6,932	211	1	272,287
	February	6,884	2,162	31.4	6,630	210	1	271,077
	March	R7,256	2,425	R33.4	R6,750	142	1	R259,801
	April	7,186	2,391	33.3	6,668	179	NA	248,986
	May	7,742	2,343	30.3	7,059	174	NA	233,166
	June	R7,910	2,697	34.1	R7,214	R238	NA	R219,403
	July	8,020	NA	NA	7,398	210	NA	215,857
	AVERAGE (Year to date)	7,387	2,354	32.3 (6 months)	6,955	195	1	

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

Sources: Data other than unleaded—1972 through 1976: Bureau of Mines (BOM) Mineral Industry Surveys, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines Mineral Industry Surveys, "Petroleum, Statement, Monthly;" May 1977 through March 1978: Energy Information Administration (EIA) Energy Data Reports, "Petroleum Statement, Monthly;" April 1978 through June 1978: "Monthly Petroleum Statistics Report;" July 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin." Unleaded data—EIA Petroleum Reporting System.

^{*}See Definitions.

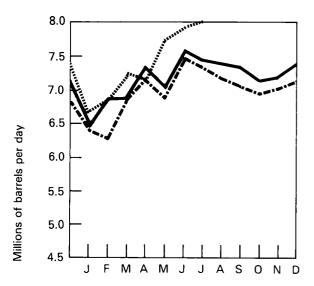
^{**}Total as of December 31.

R=Revised data.

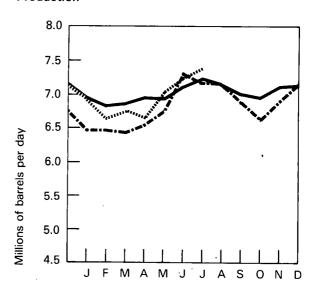
NA=Not available.

Motor Gasoline

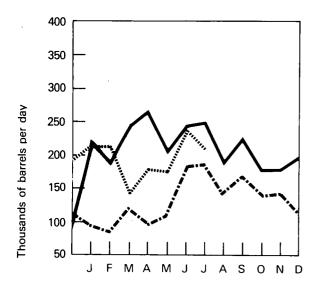
Domestic Demand



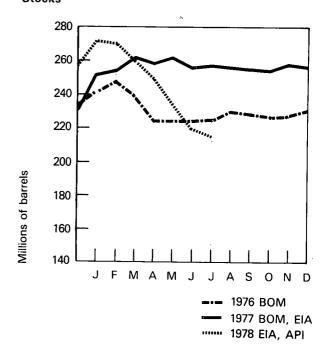
Production



Imports



Stocks



Jet Fuel

		Domestic Demand	Production*	Imports	Exports	Stocks
			Thousands of b	arrels per day		Thousands of barrels
1972	AVERAGE	1,045	847	194	3	*25,49 3
1973	AVERAGE	1,059	859	212	4	*28,544
1974	AVERAGE	993	836	163	3	*29,435
1975	AVERAGE	1,001	871	133	2	*30,380
1976	January	948	889	69	3	30,618
	February	965	918	71	4	31,180
	March	965	927	86	2	32,619
	April	1,010	927	108	2	33,332
	May	960	899	106	1	34,664
	June	972	879	68	1	33,879
	July	1,099	933	130	ż	32,732
	•	965	942	38	2	33,121
	August	1,048	990	63	2	33,204
	September		890	50	2	34,032
	October	911				
	November	978	920	56	3	33,859
	December	1,027	900	72	2	32,085
	AVERAGE	987	918	76	2	
1977	January	1,054	917	77	2	30,170
	February	1,036	974	74	2	30,455
	March	1,041	954	98	2	30,739
	April	1,019	991	86	4	32,355
	May a	993	979	57	2	33,644
	June	989	996	30	1	34,707
	July	1,043	969	85	1	35,048
	August	1,113	1,009	71	i	33,986
	September	1,050	1,004	53	2	34,159
	October	1,016	973	67	2	34,861
		1,038	950	107	1	35,409
	November			85	2	•
	December	1,089	978	65	. 2	34,568
	AVERAGE	1,040	974	74	2	
1978	January	980	922	60	1	34,603
	February	1,107	994	69	2	33,332
	March	R1,112	972	R98	2	R32,003
	April	1,007	983	113	· NĀ	34,627
	May	999	1,016	113	NA	38,603
	June	R1,045	R961	R46	NA NA	R37,409
	July	1,100	972	78	NA NA	36,172
	•					00,172
	AVERAGE (Year to date)	1,049	974	83	2	

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

^{*}Total as of December 31.

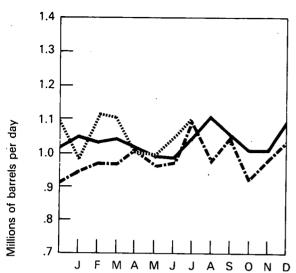
R=Revised data.

NA=Not available.

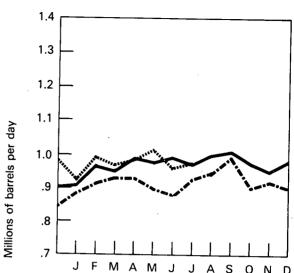
Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through March 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" April 1978 through June 1978: EIA "Monthly Petroleum Statistics Report;" July 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin."

Jet Fuel

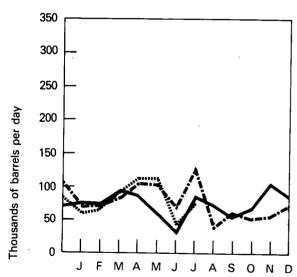
Domestic Demand



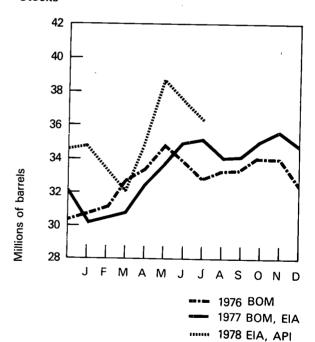
Production



Imports



Stocks



Distillate Fuel Oil

		Domestic Demand	Production*	Imports	Exports	Stocks*
			Thousands of b	arrels per day		Thousands of barrels
1972	AVERAGE	2,91 3	2,630	182	3	**154,284
1973	AVERAGE	3,092	2,820	392	9	**196,421
1974	AVERAGE	2,948	2,668	289	2	**200,029
1975	AVERAGE	2,851	2,653	155	1	**208,787
1976	January	4,297	2,734	163	0	165,428
	February	3,697	2,961	218	1	150,439
	March	3,339	2,793	153	1	138,306
	April	2,788	2,655	96	1	137,249
	May	2,519	2,738	97	1	147,057
	June	2,436	2,885	151	1	165,064
	July	2,255	2,959	126	0	190,861
	August	2,237	2,982	131	4	217,930
	September	2,620	2.947	149	1	232,230
	October	3,031	2,995	144	i	235,599
	November	3,714	3,180	135	1	223,648
	December	4,667	3,255	196	i	185,948
	AVERAGE	3,133	2,924	146	1	
1977	January	5,111	3,375	350	1	142,989
	February	4,714	3,702	664	1	133,261
	March	3,421	3,179	519	1	141,882
	April	2,942	3,001	153	3	148,246
	May	2,777	3,124	99	0	162,123
	June	2,776	3,198	135	0	178,842
	July	2,545	3,192	192	0	204,899
	August	2,635	3,274	161	0	229,757
	September	2,717	3,314	169	1	252,783
	October	3,038	3.363	150	5	267,392
	November	3,420	3,339	188	3	270,571
	December	4,205	3,324	226	2	250,280
	AVERAGE	3,352	3,279	248	1	
1978	January	4,439	3,054	194	1	213,411
	February	4,831	2,937	209	16	165,830
	March	R4,089	R2,999	R187	0	R137,877
	April	3,087	2, 9 33	100	NA	136,234
	May	3,039	3,212	125	NA	144,982
	June	R2,844	R3,116	R146	NA	R157,523
	July	2,580	3,161	124	NA	179,580
	AVERAGE (Year to date)	3,546	3,061	155	5	

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through March 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" April 1978 through June 1978: EIA "Monthly Petroleum Statistics Report;" July 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin."

^{*}See Definitions.

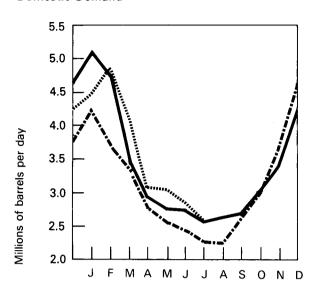
^{**}Total as of December 31.

R=Revised data.

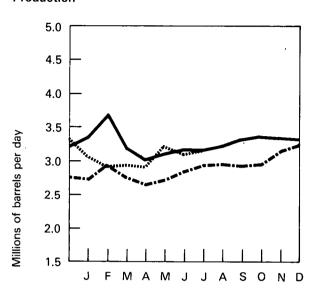
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Distillate Fuel Oil

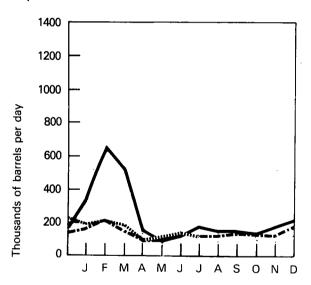
Domestic Demand



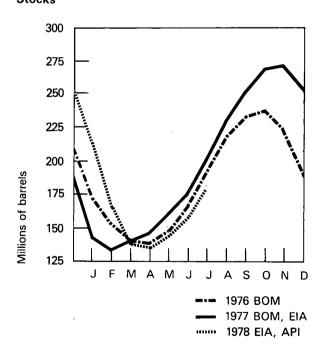
Production







Stocks



Residual Fuel Oil

		Domestic Demand	Production	Imports	Exports	Stocks
			Thousands of t	parrels per day		Thousands of barrels
1972	AVERAGE	2,529	799	1,742	33	*55,216
1973	AVERAGE	2,822	971	1,853	23	*53,480
1974	AVERAGE	2,639	1,070	1,587	14	*59,694
1975	AVERAGE	2,462	1,235	1,223	15	*74,126
1976	January	3,118	1,415	1,455	13	66,592
	February	3,077	1,394	1,774	30	68,859
	March	2,779	1,311	1,342	10	65,132
	April	2,496	1,283	1,258	18	66,458
	May	2,439	1,257	1,134	10	65,147
	June	2,509	1,241	1,229	7	64,272
	July	2,548	1,266	1,455	11	69,812
	August	2,678	1,321	1,307	8	68,490
	September	2,526	1,330	1,452	8	76,436
	October	2,547	1,351	1,270	5	79,117
	November	3,253	1,581	1,474	16	73,284
		3,645	1,772	1,828	4	72,344
	December		•	1,020	-	12,044
	AVERAGE	2,801	1,377	1,413	12	
1977	January	3,741	1,889	1,596	2	64,749
	February	3,662	1,951	1,943	8	71,414
	March	3,150	1,715	1,417	3	71,186
	April	2,855	1,687	1,125	3	70,165
	May	2,719	1,671	1,145	5	73,376
	June	2,954	1,714	1,181	2	71,924
	July	2,805	1,729	1,271	18	77,770
	August	3,046	1,634	1,441	9	78,762
	September	2,926	1,750	1,458	3	87.522
	October	2,707	1,749	1,218	2	95,896
		2,707	1,695	1,094	7	95,155
	November		•	1,348	12	89,673
	December	3,364	1,839	-		09,073
	AVERAGE	3,059	1,751	1,350	6	
1978	January	3,496	1,872	1,358	13	81,434
	February	3,964	1,801	1,565	10	64,852
	March	R3,536	R1,758	1,700	22	R62,187
	April	2,977	1,549	1,565	NA	65,928
	May	2,660	1,645	1,230	NA	72,309
	June	R2,594	R1,586	R1,011	NA NA	R71,734
		2,675	1,625	1,095	NA NA	76,327
	July		·			70,327
	AVERAGE	3,120	1,690	1,358	15	
	(Year to date)					

Note: Bureau of Mines' stock coverage was expanded at the end of 1974 to include an additional 100 bulk terminal operators; the new coverage begins here with 1975.

Sources: 1972 through 1976: Bureau of Mines (BOM) *Mineral Industry Surveys*, "Petroleum Statement, Annual;" January 1977 through April 1977: Bureau of Mines *Mineral Industry Surveys*, "Petroleum Statement, Monthly;" May 1977 through March 1978: Energy Information Administration (EIA) *Energy Data Reports*, "Petroleum Statement, Monthly;" April 1978 through June 1978: EIA "Monthly Petroleum Statistics Report;" July 1978 data are EIA estimates based on data from the American Petroleum Institute (API) "Weekly Statistical Bulletin."

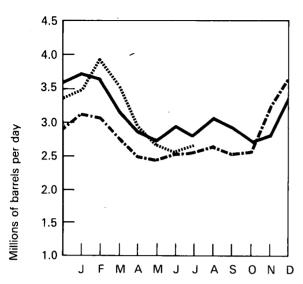
^{*}Total as of December 31.

R=Revised data.

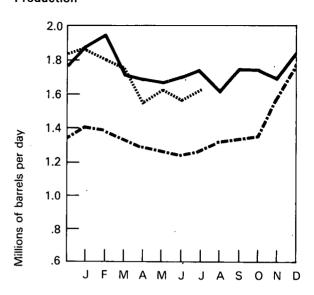
NA=Not available.

Residual Fuel Oil

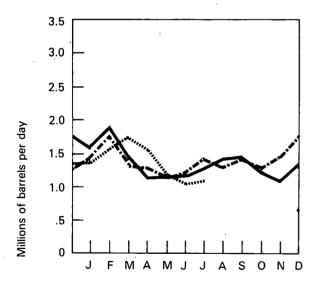
Domestic Demand



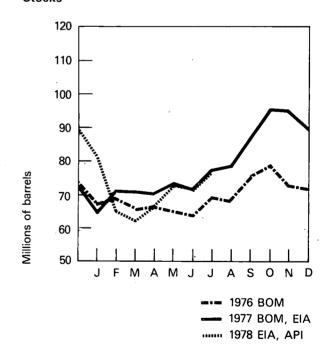
Production



Imports



Stocks



Natural Gas Liquids

	•	Domestic Demand*	Product	tion*	Used at Refineries*	Imports	Stocks*
			At processing plants	At refineries			
			Thousa	ands of barrels	per day		Thousands of barrels
1972	AVERAGE	1,420	1,744	365	826	174	**92,024
1973	AVERAGE	1,454	1,738	375	815	239	**106,659
1974	AVERAGE	1,422	1,688	338	746	212	**120,175
1975	AVERAGE	1,352	1,633	311	710	185	**132,653
1976	January	1,885	1,585	305	728	240	116,707
	February	1,518	1,640	316	793	270	113,373
	March	1,303	1,615	333	674	194	117,486
	April	1,201	1,616	349	716	171	123,100
	May	1,138	1,581	376	673	144	131,421
	June	1,110	1,606	356	718	163	139,291
	July	1,103	1,592	354	710	147	147,034
	August	1,213	1,596	362	695	160	152,704
	September	1,243	1,602	352	713	152	156,436
	October	1,497	1,601	309	709	203	152,666
	November	1,747	1,615	331	726	244	143,422
	December	1,921	1,589	341	853	269	124,518
	AVERAGE	1,407	1,603	340	725	196	
1977	January	2,018	1,549	323	730	331	106,524
13//	February	1,887	1,589	336	693	238	94,128
	March	1,354	1,687	331	688	239	100,025
	April	1,228	1,664	337	672	198	108,235
	May	1,167	1,620	397	614	165	120,018
	June	1,235	1,616	364	622	203	129,315
	July	1,133	1,609	381	594	157	141,631
	August	1,181	1,593	360	659	204	150,830
	September	1,220	1,585	355	654	148	156,726
	October	1,242	1,632	355	710	168	162,440
	November	1.765	1,627	352	700	187	152,971
	December	1,760	1,637	345	727	254	144,617
	AVERAGE	1,430	1,618	353	672	208	
4070	lanuane	1,867	1,557	327	645	201	130,797
1978	January					207	120,274
	February	1,802	1,562 1,590	338 362	R659 R601	132	121,317
	March	1,429	1,648	338	624	140	123,300
	April	1,419	1,594	378	582	184	134,600
	May	1,189		360	595 ·	195	143,800
	June	1,231	1,597 1,577	350 350	575	160	152,200
	July	1,222	1,577				132,200
	AVERAGE (7 months)	1,451	1,589	350	612	174	

^{*}See Explanatory Note 5. **Total as of December 31.

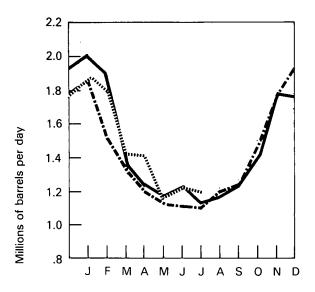
^{***}Estimated.

R=Revised data.

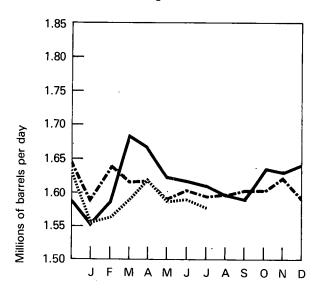
Source: Bureau of Mines Mineral Industry Surveys, "Petroleum Statement, Monthly" through April 1977; EIA Energy Data Reports, "Petroleum Statement, Monthly" for May 1977 through March 1978, and EIA estimates for April 1978 forward.

Natural Gas Liquids

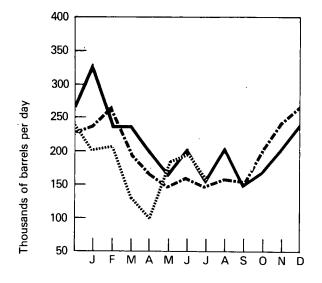
Domestic Demand



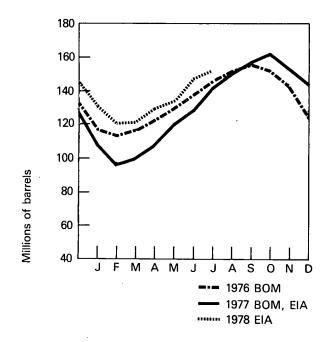
Production at Processing Plants



Imports



Stocks



U.S. Petroleum Supply and Demand

1977
Actus

			Actual				
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Year		
		Thousands	s of barrels pe	of barrels per day			
Supply							
Crude oil and lease condensate production Natural gas plant liquids production Other hydrocarbon supply Crude oil imports ¹ Refined products imports ²	7,956 1,609 43 6,520 2,813	8,042 1,633 54 6,867 1,836	8,231 1,596 52 6,624 , 2,110	8,481 1,632 52 6,182 1,955	8,179 1,618 50 6,548 2,176		
Total new supply Processing gain Stock change-all oils ³	18,941 521 -278	18,432 450 +1,190	18,613 543 +1,177	18,302 569 +12	18,571 521 +528		
Total net supply	19,740	17,692	17,979	18,859	18,564		
Unaccounted for crude oil4	+114	+88	+59	+172	+113		
Demand							
Crude oil and refined products exports Crude oil losses Domestic demand for refined products ⁵ Total demand	210 15 19,629 19,854	245 15 17,520 17,780	259 16 17,764 18,039	255 16 18,776 19,047	243 16 18,418 18,677		
	Actual First Fi		1977 First Half	1977-1978 First Half Year Percer			
	1st Qtr.	2nd Qtr.	Year	Year	Change		
•		Thousan	and of barrels per day				
Supply							
Crude oil and lease condensate production Natural gas plant liquids production Other hydrocarbon supply Crude oil imports ¹ Refined products imports ²	R8,514 1,570 R56 R5,845 R2,238	R8,630 1,613 R51 R5,666 R1,862	R8,572 1,592 R53 R5,755 R2,049	7,999 1,621 49 6,694 2,322	R+7.2 -1.8 R+8.2 R-14.0 R-11.8		
Total new supply Processing gain Stock change—all oils ³	R18,223 R489 R-1,712	R17,822 R521 R-202	R18,021 R505 -953	18,685 485 +460	R-3.6 R+4.1 R-307.2		
Total net supply	R20,424	R18,545	19,479	18,710	+4.1		
Unaccounted for crude oil4	R-126	R+117	R-3	+102	R-102.9		
Demand							
Crude oil and refined products exports Crude oil losses Domestic demand for refined products ⁵	R246 15 R20,037	R269 15 R18,378	R258 15 R19,203	228 15 18,569	R+13.2 0.0 R+3.4		
Total demand	20,298	R18,662	R19,476	18,812	R+3.5		

¹Excludes crude oil imported for the Strategic Petroleum Reserve.

Note: 1978 data are preliminary.

²Includes plant condensate and unfinished oils.

³Excludes petroleum stored in the Strategic Petroleum Reserve.

⁴Balancing item resulting from statistical inconsistencies.

Includes international bunkers.

R=Revised Data

Note: 1976 data are preliminary.

Sources: 1st Quarter 1977—BOM Mineral Industry Surveys, "Petroleum Statement, Monthly;" 2nd, 3rd, and 4th Quarters 1977 and 1st Quarter 1978—BOM Mineral Industry Surveys, "Petroleum Statement, Monthly," and Energy Information Administration (EIA) Energy Data Reports, "Petroleum Statement, Monthly;" 2nd Quarter 1978—EIA Energy Data Reports, "Petroleum Statement, Monthly—EIA "Monthly Petroleum Statistics Report," and EIA estimates.

Strategic Petroleum Reserve

		Crude Oil Deliveries*	Cumulative Deliveries	Average Delivered Price	Cumulative Average Delivered Price
			Barrels	Dollars pe	er barrel
1977	July	414,172	414,172	13.565	13.565
	August	0	414,172	-	_
	September	674,961	1,089,133	13.59	13.58
	October	1,539,263	2,628,396	14.22	13.95
	November	2,434,463	5,062,859	14.50	14.21
	December	2,455,466	7,518,325	14.58	14.33
1978	January	3,531,481	11,049,806	14.46	14.37
	February	3,058,683	14,108,489	14.38	14.37
	March	4,106,270	18,214,759	14.46	14.39
	April	3,252,374	21,467,133	14.95	14.47
	May	4,115,953	25,583,086	15.28	14.60
	June	4,389,042	29,972,128	14.50	14.58
	July	4,786,928	34,759,056	14.52	14.57

^{*}Does not include cargoes in transit at the end of the reporting month, nor cargoes that discharged into Caribbean transshipment termimals for eventual transfer to SPRO terminals.

Source: U.S. Department of Energy, Strategic Petroleum Reserve Office.

Natural Gas

Domestic consumption of natural gas in July 1978 was an estimated 0.5 percent higher than in July 1977. Estimated consumption during the first 7 months of 1978 was 5.6 percent above that of January—July 1977.

Marketed production of natural gas in July was estimated at a level slightly higher than in July 1977, and production during the period January-July 1978 was estimated to be only 0.7 percent lower than during the comparable period in 1977.

Imports of natural gas in July 1978 were an estimated 5.4 percent lower than in the previous July, and estimates for imports during the first 7 months of 1978 were 7.9 percent below those for the comparable period in 1977. Receipts of foreign natural gas during the January-July 1978 period included Algerian liquefied natural gas (LNG) equivalent to approximately 10 billion cubic feet shipped to the first large-scale LNG receiving terminal completed in the United States at Cove Point. Maryland. Only four tanker loads of LNG have been received since March, because of operational problems at the liquefaction facilities in Algeria. Current plans call for the eventual receipt of an average 650 million cubic feet per day of Algerian LNG at Cove Point.

Net injections of natural gas into underground storage reservoirs in July 1978 totaled 333 billion cubic feet, the same as in the previous July. Working gas* in storage at the end of July 1978, however, was 7.8 percent less than that available a year earlier. Stocks of working gas at the end of the winter of 1977-1978 dropped below the level of the previous winter, and total net injections from April through July 1978 were 111 billion cubic feet less than during the same period in 1977.

In May 1978 domestic producer sales of natural gas to major interstate pipeline companies were 1.3 percent lower than during May 1977. Sales during the first 5 months of 1978 were 2.2 percent below those for the January-May 1977 period.

Part 3

^{*}Gas available for withdrawal.

Natural Gas

		Domestic Consumption*	Marketed Production*	Domestic Producer Sales to Major Interstate Pipelines	Imports	Exports		
			Billior	cubic feet				
1972	TOTAL	22,102	22,532	12,429	1,019	78		
197 3	TOTAL	22,049	22,648	12,067	1,033	77		
1974	TOTAL	21,223	21,601	11,462	959	77		
1975	TOTAL	19,538	20,109	10,652	953	73		
1976	January	2,291	1,751	894	84	5		
	February	1,938	1,647	850	78	5		
	March	1,721	1,714	894	85	6		
	April	1,508	1,623	849	86	6		
	May	1,434	1,673	860	82	5		
	June	1,335	1,640	815	76	5		
	July	1,372	1,676	822	73	6		
	August	1,317	1,636	810	77	6		
	September	1,302	1,565	793	74	6		
	October	1,621	1,639	840	85	5		
	November	1,875	1,635	841	81	5		
	December	2,232	1,753	872	83	5		
	TOTAL	19,946	19,952	10,140	964	65		
1977	January	2.386	1,734	848	85	5		
1077	February	1,793	1,668	807	85	4		
	March	1,693	1,742	910	106	4		
	April	1,408	1,634	830	82	3		
	May	1,352	1,688	830	84	3		
	June	1,311	1,643	789	76	5		
•	July	1,304	1,669	801	74	7		
	August	1,343	1,639	784	78	5		
	September	1,403	1,587	741	78	5		
	October	1,490	1,620	831	85	5		
	November	1,663	1,599	830	86	5		
	December	2,082	1,719	882	90	5		
			,					
	TOTAL	19,228	19,942	9,883 .	1,009	56		
1978	January	2,353	1,707	862	87	5		
	February	2,116	1,618	756	77	4		
	March	1,889	1,714	861	86	4		
	April	1,543	1,672	836	78	3		
	May	R1,400	**1,680	819	R76	4		
	June	1,270	**1,640	. NA	R**71	5		
	July	1,310	**1,670	NA	**70	6		
	TOTAL	11,881	11,701	4,134	545	31		
	(Year to date)			(5 months)		,		

^{*}See Explanatory Note 6.
**Preliminary data.

R=Revised data.

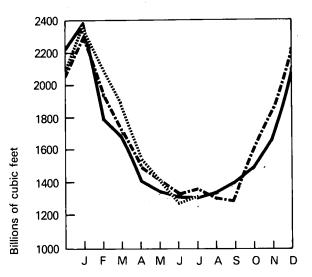
NA=Not available.

Note: All monthly Domestic Consumption and 1978 Exports data are estimated.

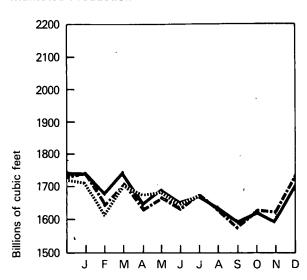
Sources: Domestic Consumption – EIA estimates; Marketed Production, Imports, and Exports – Bureau of Mines Mineral Industry Surveys, "Natural Gas, Monthly" through June 1977 and EIA Energy Data Reports, "Natural Gas, Monthly" for July 1977 forward; Domestic Producer Sales – Federal Power Commission Form 11, "Monthly Statement of Gas Operating Revenues, Sales."

Natural Gas

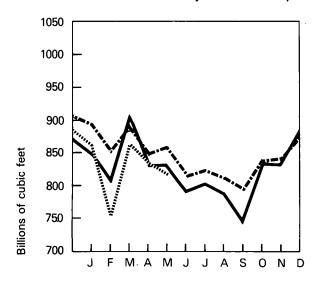
Domestic Consumption



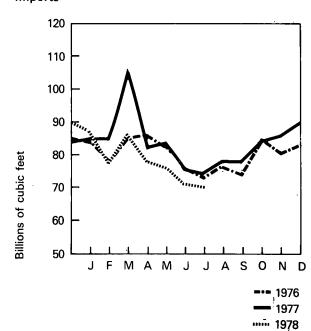
Marketed Production



Domestic Producer Sales to Major Interstate Pipelines



Imports

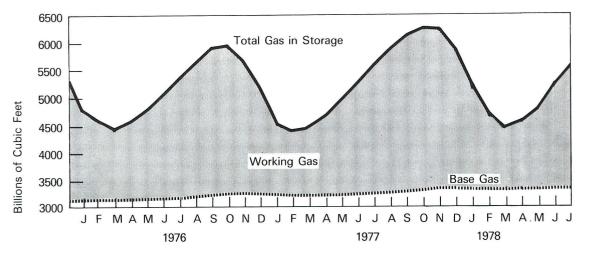


Natural Gas (Continued)

Natural Gas in Underground Storage*

	v	Total Gas in Storage	Base Gas	Working Gas	Storage Injections	Storage Withdrawals	Net Storage Injections
				Billior	cubic feet		
1975	September October November December	5,553 5,706 5,691 5,358	3,085 3,107 3,150 3,150	2,468 2,599 2,541 2,208	220 190 98 38	31 51 146 371	189 139 -48 -333
1976	January February March April May June July August September October November December	4,817 4,617 4,496 4,607 4,827 5,116 5,412 5,698 5,946 5,966 5,713 5,231	3,169 3,173 3,170 3,184 3,190 3,208 3,220 3,251 3,296 3,302 3,305 3,310	1,648 1,444 1,326 1,423 1,637 1,908 2,192 2,447 2,650 2,664 2,408 1,921	17 66 79 185 245 304 301 298 259 135 40 23	526 265 200 75 24 27 6 17 22 116 291 505	-509 -199 -121 110 221 277 295 281 237 19 -251
1977	January February March April May June July August September October November December	4,580 4,446 4,501 4,713 5,024 5,330 5,665 5,945 6,188 6,302 6,224 5,844	3,293 3,283 3,286 3,286 3,293 3,300 3,317 3,346 3,364 3,373 3,403 3,377	1,287 1,163 1,215 1,427 1,731 2,030 2,348 2,599 2,824 2,929 2,821 2,467	18 101 187 256 329 317 348 290 262 157 84 41	670 235 132 43 17 12 15 21 2 44 160 416	-652 -134 55 213 312 305 333 269 260 113 -76 -375
1978	January February March April May June July	5,193 4,683 4,497 4,608 4,870 5,217 5,550	3,374 3,373 3,374 3,377 3,378 3,381 3,386	1,819 1,310 1,123 1,231 1,491 1,836 2,164	21 21 92 179 291 365 349	668 530 278 68 30 18	-647 -509 -186 111 261 347 333

Gas in Storage



^{*}See Explanatory Note 7.
Sources: Federal Energy Administration Form G318-M-O and Federal Power Commission Form 8 "Underground Gas Storage Report."

Bituminous coal and lignite production declined seasonally from 65.6 million tons in June 1978 to 52.1 million tons in July because of miners' summer vacations. Production through the first 7 months of 1978 totaled 331.4 million tons, 63.4 million tons or 16.1 percent below the output for the same period in 1977.

Domestic consumption of bituminous coal and lignite totaled 51.9 million tons in June 1978, up 0.4 percent from the amount consumed during June 1977. In the first 6 months of 1978, domestic coal consumption was 290.4 million tons, 4.5 percent below consumption for the same period in 1977. Electric utility coal consumption* was 40.6 tons in June 1978 compared with 40 million tons in June 1977. Utilities consumed 224.5 tons in the first 6 months of 1978, 4.1 million tons less than the amount consumed in the same period a year earlier. The second largest coal consuming sector, coke plants, used 6.3 million tons in June 1977. In the first 6 months of 1978, coal consumption by coke plants was 31.8 million tons, 8.4 million tons below the amount consumed in the same period a year earlier, while coal consumption by the general industry sector totaled 30.1 million tons, 1.2 million tons less than for the January-June period of 1977. Shipments of coal to retail dealers in the first 6 months of 1978 totaled 3.9 million tons, 0.2 million tons more than shipments in the same 6-month period a year earlier.

Stocks of bituminous coal and lignite on June 30, 1978, were 121.8 million tons, or 70 days' supply at June burn rates, up 10.3 million tons from the stock level at the end of May. Electric utilities increased their stockpiles* from 98.5 million tons to 107.5 million tons during June. Utility stocks on June 30, 1977, were 127 million tons equivalent to 95 days' supply. Stocks of coking coal were 8.2 million tons on June 30, 1.1 million tons above the April 30 level. Coal stocks held by general industry increased from 5.2 million tons at the end of May to 5.8 million tons at the end of June. Coal stocks at retail dealers yards in-

creased from 0.2 million tons to 0.3 million tons during June.

U.S. exports of coal increased from 4.4 million tons in May to 5.4 million in June. Exports for the first 6 months of 1978 were 14.2 million tons, 11.8 million tons below the amount exported during the same period a year earlier, and 14.6 million tons below exports for the January-June period of 1976. U.S. imports of coal increased from 0.6 million tons during the first 6 months of 1977 to 1.6 million tons for same period in 1978.

Coal

Bituminous and Lignite

		Domestic Consumption*	Production*	Exports	Imports	Stocks**
			Thousands of	short tons		
1972	TOTAL	516,776	595,386	55,997	47	115,372
1973	TOTAL	556,022	591,738	52,870	127	103,022
1974	TOTAL	552,709	603,406	59,926	2,080	95,528
1975	TOTAL	556,301	648,438	65,669	940	127,115
1976	January February March April May June July August September October November December	52,932 46,832 48,624 46,415 46,681 48,445 51,717 52,082 47,689 49,312 51,877 56,144	52,568 53,773 60,918 59,145 57,934 59,680 44,318 53,622 60,634 58,899 58,780 58,414	3,697 3,050 3,979 5,780 5,667 6,569 4,880 4,223 5,614 5,871 5,451 4,625	103 114 40 132 90 192 39 90 65 94 149 95	119,220 119,004 123,471 128,393 136,013 140,144 129,661 123,853 129,878 133,624 135,019
1977	January February March April May June July August September October November December	56,561 50,033 50,278 46,290 49,120 51,690 56,141 54,758 50,622 50,191 50,245 53,687	44,525 49,045 66,445 60,280 62,220 62,810 49,425 57,560 69,200 67,420 68,715 30,930	2,143 3,079 3,390 5,637 5,673 6,019 5,158 4,279 5,037 4,871 4,491 3,910	123 75 31 170 94 92 112 100 175 274 326 231	118,116 114,363 122,593 129,878 137,673 145,914 137,463 136,832 144,953 158,164 173,063 152,317
1978	January February March April May June July TOTAL (Year to date)	54,405 46,014 43,810 45,504 R48,753 51,916 NA 290,402	23,115 23,520 38,765 59,530 68,760 65,565 52,120 331,375	870 555 325 2,594 4,411 5,398 NA 14,153	139 159 231 417 323 291 NA	118,121 93,130 83,942 96,462 R110,886 121,800 NA

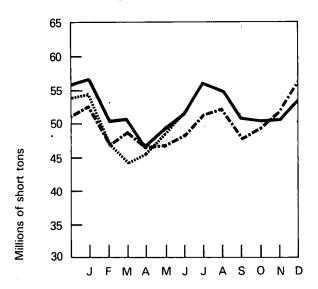
^{*}See Explanatory Note 7.
**Total stocks held by utilities, industrial consumers, and retail dealers at end of year or month.

R=Revised data.
NA=Not available.

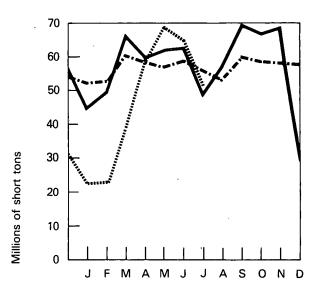
Source: Exports and Imports—U.S. Department of Commerce, Bureau of the Census; remaining data—Bureau of Mines *Mineral Industry Surveys*, "Weekly Coal Report" through September 1977; and EIA *Energy Data Reports*, "Weekly Coal Report" for October 1977 forward.

Bituminous and Lignite

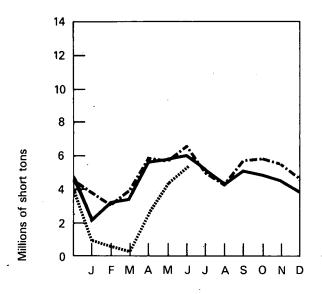
Domestic Consumption



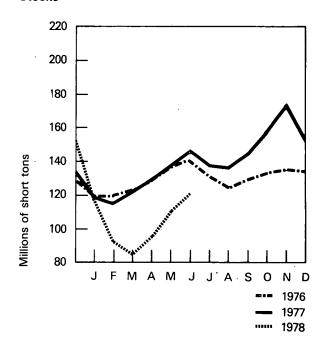
Production



Exports



Stocks



Anthracite

		Production	Apparent Domestic Consumption	Production 800
		Thousands of	•	
		Thousands of	511011 10110	700 —
1972	TOTAL	7,106	5,915	, the
1973	TOTAL	6,830	5,671	600
1974	TOTAL	6,617	5,448	500
1975	TOTAL	6,203	5,108	Housands of short tons and solutions and solutions and solutions and solutions are solutions and solutions and solutions are solutions are solutions and solutions are solutions and solutions are solutions and solutions are solutions and solutions are solutions are solutions are solutions are solutions are solutions.
				‡ 400 ¾ /
1976	January	525	460	ğ 🕻
	February	440	430	ν ••• •
	March	525	420	5 300
	April	520	435	σ
	May	555	440	2 000
	June	610	400	ig 200 는
	July	490	350	ä
	August	590	375	Ĕ 100 L L L L L L L L L L L L L L L L L L
	September	515	400	· · · · · · · · · · · · · · · · · · ·
	October	490	455	J F M A M J J A S O N [
	November	493	400	
	December	475	475	
				Apparent Domestic Consumption
	TOTAL	6,228	5,040	, pp
				700
1977	January	400	440	700
	February	450	450	
	March	570	470	600 -
	April	550	450	
	May	600	440	500
	June	570	420	500
	July	450	360	
	August	525	400	
	September	560	430	400
	October	550	435	S.C.
	November	500	470	₫
	December	475	450	₩ 300 -
	December	47.5	100	<u>ē</u> '
	TOTAL	6,200	5,215	Thousands of short tons and sold tons are sold tons and sold tons and sold tons and sold tons are sold tons and sold tons and sold tons are sold tons and sold tons and sold tons are sold tons and sold tons and sold tons are sold tons and sold tons are sold tons.
		400	400	σ̈
1978	January	430	400	Pc
	February	340	425	සූ 100 ·
	March	R560	540	ğ
	April	575	540	Ĕ <u> </u>
	May	650	560	
	June	R595	R490	J F M A M J J A S O N I
	July	570	500	1976
	TOTAL (Year to date)	3,720 _.	3,455	— 1977 ••••• 1978

Source: Bureau of Mines Mineral Industry Surveys, "Weekly Coal Report" through September 1977; and EIA Energy Data Reports, "Weekly Coal Report" for October 1977 forward.

Electric Utilities

June 1978 production of electricity by utilities is 187.4 billion kilowatt hours, an increase of 3.7 percent from the June 1977 production level. Total production during the first 6 months of 1978 is 1,067.1 billion kilowatt hours, 3.1 percent above the level for the same months of 1977. Edison Electric Institute preliminary estimated July 1978 production at 203.6 billion kilowatt hours.

Electric utility oil consumption during June 1978 was 9.8 percent below the June 1977 consumption level. Total oil consumption for the first 6 months of 1978 was 332.2 million barrels, 4.2 percent above the 1977 level. Coal consumption for June 1978 was 40.7 million tons, 1.4 percent above the 1977 rate. The total consumption of coal for the first 6 months of 1978 was 225.3 million tons, 1.8 percent below the 1977 level. The decline in coal consumptionwas a result of the UMWA coal strike during the first 3 months of 1978. During June 1978 conumption by gas-fired plants reached 320.6 billion cubic feet, 3.2 percent above the June 1977 consumption rate. Gas consumption for the first 6 months of 1978 was 3.3 percent above the 1977 rate.

During June 1978, coal stocks increased by 9.5 percent above the stockpile level of a month earlier. Although July 1, 1978, coal stocks increased from the previous month's level, stockpiles of coal at electric utilities still were 14.3 percent below the stock level July 1, 1977. Oil stocks on July 1, 1978, increased 9.2 percent above the level for the same month of 1977.

Sales of electric energy to ultimate consumers by all electric utilities in the United States in May 1978 totaled 149.9 billion kilowatt hours, an increase of 2.1 percent over May 1977 sales.

Sales to residential consumers during May were 43.6 billion kilowatt hours, an increase of 5 percent over sales for the corresponding month in 1977. Commercial sales were 33.9 billion kilowatt hours, 1.2 percent llower than in May 1977. Sales to industrial consumers totaled 66.7 billion kilowatt hours, an increase of 2 percent compared to May 1977.

Part 5

^{*}Utility coal consumption and stocks include bituminous and anthracite coal, lignite, and coke.

Electric Utilities

Net Electricity Production

		Coal	Oil ·	Gas	Nuclear	Hydro- electric	Other*	Total
				Milli	ons of kilowat	hours		
1971	TOTAL	714,680	218,622	374,027	38,105	266,301	859	1,612,593
1972	TOTAL	772,857	272,550	375,735	54,091	272,612	1,783	1,749,629
1 97 3	TOTAL	848,988	312,940	340,804	83,334	272,081	2,294	1,860,440
1974	TOTAL	829,973	299,363	320,055	113,976	301,032	2,704	1,867,103
1975	TOTAL	852,968	288,908	299,772	172,506	300,047	3,437	1,917,638
1976	January February March April May June July August September October November December	83,707 73,532 76,570 72,571 72,512 76,939 83,294 84,222 75,384 76,955 81,702 87,220	32,214 24,767 25,420 23,299 21,794 25,103 26,997 28,248 23,608 24,168 30,060 34,130	19,895 19,163 21,282 21,867 25,319 29,715 32,032 31,394 28,058 23,918 21,119 20,897	16,099 14,377 13,993 10,982 11,929 15,757 17,709 18,363 17,290 17,355 16,134 21,115	26,070 24,521 26,563 24,137 25,516 25,563 26,064 23,843 20,369 21,042 19,805 20,220 283,713	344 323 346 312 300 314 338 336 327 319 293 332	178,329 156,683 164,174 153,168 157,370 173,391 186,434 186,406 165,036 163,757 169,113
1977	January February March April May June July August September October November December	89,844 78,752 77,521 70,898 77,071 83,148 92,408 90,764 82,593 79,406 79,495 83,640 985,540	43,363 29,429 28,343 25,834 27,945 28,947 34,866 32,302 26,348 23,061 24,848 32,652 357,938	19,953 19,481 22,467 21,297 24,701 29,623 32,715 33,293 30,942 27,359 22,582 21,151 305,564	22,152 19,601 20,672 19,867 20,599 21,517 21,825 22,750 19,630 19,041 19,458 23,771 250,883	20,700 15,150 19,801 18,642 18,677 17,226 16,799 16,712 16,455 17,219 20,428 22,787	3,884 359 322 356 319 341 335 328 317 342 360 347 337 4,063	2,037,775 196,371 162,735 169,160 156,857 169,334 180,796 198,941 196,138 176,310 166,446 167,158 184,338 2,124,584
1978	January February March April May June July TOTAL (Year to date)	85,027 R70,692 66,758 70,411 R76,491 83,903 NA 453,282	39,227 38,072 36,854 R24,915 R24,316 24,912 NA 188,296	R22,302 R20,361 R22,261 R21,314 R25,058 30,467 NA 141,763	25,833 21,833 22,449 17,580 20,416 22,659 NA 130,770	R25,067 22,399 24,662 R25,326 28,775 25,242 NA 151,471	357 309 264 208 187 225 NA 1,550	R197,813 173,666 R173,248 R159,754 R175,243 187,408 203,625 1,270,757

(See chart on page 35)

^{*}Includes electricity produced from geothermal power, wood, and waste.

R=Revised data.

NA=Not available.

Source: Federal Power Commission Form 4, "Monthly Powerplant Report" through June 1978; Edison Electric Institute for July 1978 Total and Nuclear Regulatory Commission for July 1978 Nuclear.

Electric Utilities (Continued)

Fuel Consumption

	-	Coal		Oil		Gas
			Steam*	Gas Turbine/ Internal Combustion**	Total	
		Thousands of short tons		Thousands of barrels		Millions of cubic feet
4074	TOTAL	327,887	362,186	34,282	396,468	3,975,971
1971		-	·	53,463	493,692	3,976,770
1972	TOTAL	352,392	440,229		-	
1973	TOTAL	389,707	513,127	47,020	560,147	3,659,388
1974	TOTAL	392,423	482,524	53,721	536,245	3,443,293
1975	TOTAL	406,030	466,940	39,188	506,128	3,157,584
1976	January	39,986	51,114	4,974	56,088	206,528
	February	34,965	40,452	2,676	43,128	199,441
	March	36,099	41,154	2,800	43,954	222,765
	April	33,805	37,663	2,489	40,152	227,826
	May	33,944	35,651	2,220	37,871	266,632
	June	36,381	40,065	3,574	43,639	313,369
		39,841	43,143	4,084	47,227	337,640
	July	40,330	45,627	3,443	49,070	329,737
	August	35,895	38,245	2,526	40,771	295,071
	September		39,101	3,106	42,207	250,046
	October	36,783		4,971	52,317	217,362
	November December	38,845 41,582	47,346 53,949	5,564	59,513	214,869
	TOTAL	448,456	513,510	42,427	555,937	3,081,286
1977	January	43,255	66,379	9,518	75,897	205,074
1377	February	37,665	47,659	3,150	50,809	200,413
	March	37,218	46,172	2,495	48,667	231,826
	April	34,051	42,218	2,213	44,431	223,081
•	May	37,159	44,779	3,846	48,625	259,800
	June	40,151	46,249	4,303	50,552	310,706
		44,977	54,664	7,741	62,405	346,677
	July	44,172	51,950	4,646	56,596	350,756
	August	40,168	43,297	2,523	45,820	324,614
	September	38,379	38,071	1,900	39,971	284,844
	October		40,654	2,469	43,123	234,198
	November December	38,722 41,312	52,780	4,067	56,847	219,984
	TOTAL	477,229	574,872	48,871	623,743	3,191,973
1978	January	42,713	61,263	R8,244	R69,507	R229,080
	February	35,884	59,630	R7,695	R67,325	R211,092
	March	34,066	58,770	5,466	64,236	R232,289
	April	R34,655	40,916	R2,156	R43,072	R223,489
	May	R37,224	R40,265	R2,265	R42,530	R261,753
	June	40,715	42,105	3,473	45,578	320,577
	TOTAL (6 months)	225,257	302,949	29,299	332,248	1,478,280
	(o monuis)					

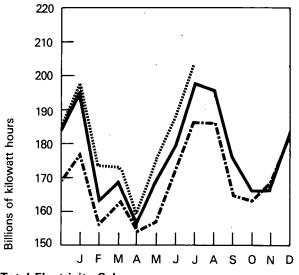
^{*}Primarily residual fuel oil. **Primarily middle distillates.

R=Revised.

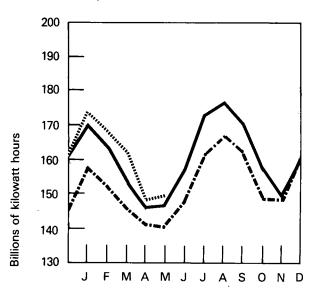
Source: Federal Power Commission Form 4, "Monthly Powerplant Report."

Electric Utilities

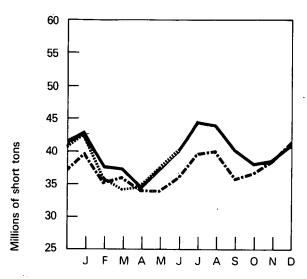
Total Net Electricity Production



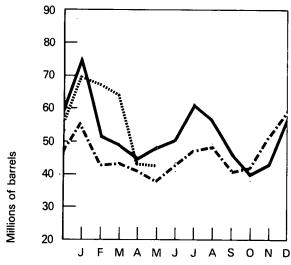
Total Electricity Sales



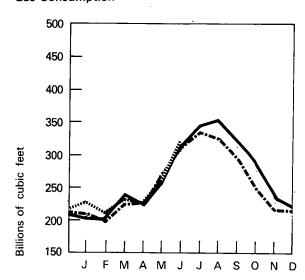
Coal Consumption



Oil Consumption



Gas Consumption



Electric Utilities (Continued)

Stocks at End of Month

		Coal	Oil					
			Steam*	Gas Turbine/ Internal Combustion**	Total			
		Thousands						
		of short tons		Thousands of barrels				
				Inousailus oi baireis				
1971		***78,069	***46,451	***3,194	***49,645			
1972		***100,009	***52,575	***5,079	***57,654			
1973	·	***87,279	***79,121	***10,095	***89,216			
1974		***83,542	***97,201	***15,715	***112,916			
1975		***110,750	***108,358	***16,886	***125,244			
1010			400.000	15,922	117,945			
1976	January	105,518	102,023	16,706	118,853			
	February	104,874	102,147	16,467	120,550			
	March	108,450	104,082	16,642	120,339			
	April	112,862	103,757	16,962	126,105			
	May	119,611	109,142	16,621	126,281			
	June	123,048	109,660	15,862	126,691			
	July	115,204	110,829	16,007	125,830			
	August	110,752	109,823	17,059	130,024			
	September	115,399	112,965	16,954	131,391			
	October	118,591	114,437	15,517	126,655			
	November	119,323	111,137	14,980	121,724			
	December	117,493	106,744					
1977	January	106,183	90,104	12,740	102,844			
	February	103,307	95,934	14,098	110,032			
	March	109,620	98,148	15,479	113,627 117,619			
	April	115,915	101,801	15,818	119,935			
	May	122,834	104,094	15,841 R15,644	R123,576			
•	June	128,820	107,932	16,028	129,278			
•	July	123,405	113,250	17,093	136,692			
	August	123,856	119,599	17,864	143,224			
	September	130,379	125,360	19,128	147,580			
	October	139,705	128,452 129,701	19,149	148,850			
	November	149,731	125,245	19,316	144,561			
	December	133,288	125,245	15,510	•			
1978	January	105,327	114,049	R16,236	R130,285			
	February	R84,738	110,015	R17,100	R127,115			
	March	77,187	110,980	R17,250	R128,230			
	April	88,137	R114,234	17,375	R131,609			
	May	R100,787	R116,912	R16,962	R133,874			
	June	110,339	118,036	16,882	134,918			

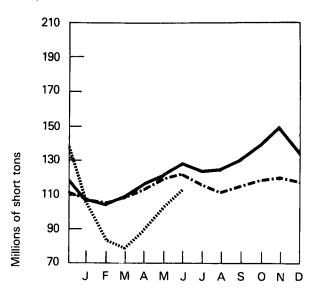
Source: Federal Power Commission Form 4, "Monthly Powerplant Report."

^{*}Primarily residual fuel oil.
**Primarily middle distillates.
***As of December 31.

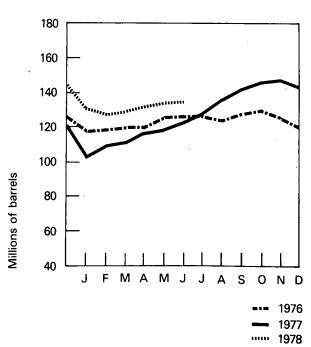
R=Revised.

Electric Utilities





Oil Stocks



Electric Utilities (Continued)

Electricity Sales*

		Residential	Commercial	Industrial	Other**	Total
			Millions	s of kilowatt ho	urs	
1972	TOTAL	538,609	359,265	640,978	56,309	1,595,161
1973	TOTAL	579,231	388,266	686,085	59,326	1,712,909
1974	TOTAL	578,184	384,826	684,875	58,039	1,705,924
1975	TOTAL	584,711	401,665	675,270	68,153	1,729,799
1976	January February	60,126 54,264	34,955 33,809	57,463 58,064	6,359 5,855	158,903 151,992
	March April	47,041 43,563	32,520 31,813	60,322 59,967	5,967 5,386	145,850 140,729
	May	41,044	32,538	61,133	5,473	140,188
	June	44,131	35,325	62,654	5,371	147,481
	July	53,702	39,489	62,388	5,856	161,435
	August	57,349	39,933	63,921	5,829	167,032 162,783
	September	53,459	38,817	64,382 64,028	6,125 5,649	149,409
	October	44,751	34,981 33,622	63,002	5,802	149,108
	November December	46,682 56,751	35,838	62,640	5,886	161,115
	December	30,731	55,656	02,040	0,000	101,7110
	TOTAL	602,863	423,640	739,964	69,558	1,836,025
1977	January	65,332	37,598	61,481	6,274	170,685
	February	61,423	36,105	60,439	5,770	163,737
	March	50,859	34,248	63,294	6,158	154,559
	April	44,414	33,180	63,278	5,425	146,297
	May	R41,658	R34,291	R65,418	R5,613	R146,890
	June	49,438	37,601	66,073 64,708	5,595 5,935	158,707 173,343
	July	60,955 62,440	41,745 42,433	66.521	5,935 5,837	177,231
	August September	57,231	40,845	66.579	5,951	170,606
	October	48,696	36,547	66,442 _{.5}	5,979	157,664
	November	44,962	33,979	64,959	5,866	149,766
	December	55,101	36,047	63,809	6,083	161,040
	TOTAL	R642,419	R444,619	R773,001	R70,485	R1,930,241
1978	January .	65,547	37,942	64,300	6,584	174,373
	February	63,936	37,286	60,817	6,252	168,291
	March	58,194	36,201	61,524	6,032	161,951
	April	46,928	33,484	63,129	5,342	148,883
	May	43,637	33,896	66,745	5,636	149,914
	TOTAL (5 months)	278,242	178,809	316,515	29,846	803,412

(See chart on page 35)

^{*}Electricity sales to ultimate consumers.
**Includes street lighting and transportation uses.

R=Revised.

Source: Federal Power Commission Form 5, "Monthly Statement of Electric Operating Revenue and Income."

Nuclear Power

Nuclear powerplants generated 25 billion net kilowatt hours of electricity during July, which was approximately 12.3 percent of total net domestic electricity production for the month. The 67 fully operational domestic reactors, with a maximum dependable capacity of 47,714 net electrical megawatts*, operated at an average 70 percent capacity for the month, 5 percentage points higher than that for June.

The Cook 2 reactor, which achieved commercial operation status in July of this year, is one of two owned by the Indiana and Michigan Power Company. Located near Benton Harbor, Michigan, on the southeastern shore of Lake Michigan, the two reactors have a combined capacity of 2,150 megawatts.

Part 6

Nuclear Power

^{*}Does not include three units in startup testing having a total capacity of 2,005 megawatts.

U.S. Nuclear Powerplant Operations*

		Maximum Dependable Capacity	Average Power	Percent Total Domesti Electrici Generat	c Cy	
		Thousand	ds of net k	ilowatts		
1972	AVERAGE	.7,726	6,174	3.1		
1973	AVERAGE	13,850	8,760	4.5		
1974	AVERAGE	29,921	13,011	6.1		
1975	AVERAGE	35,671	19,692	9.0		
	January February March April May June July August September October November December AVERAGE January February March	36,750 36,879 38,072 39,763 39,902 39,781 40,168 42,067 42,896 42,877 43,673 42,877 40,642 44,316 44,282 44,289	21,638 20,657 18,808 15,142 16,034 21,885 23,802 24,681 24,014 23,327 22,408 28,380 21,756 29,774 29,168 27,785	9.0 9.2 8.5 7.2 7.6 9.1 9.5 9.8 10.5 10.5 11.5 9.4 11.3 12.0 12.2		
1978	April May June July August September October November December AVERAGE January February March April May June July AVERAGE (7 months)	45,131 45,222 45,991 45,984 45,982 46,051 46,088 47,133 45,554 47,167 48,080 48,062 48,926 48,926 48,924 49,714 49,719 48,658	30,173 24,451 27,441	12.7 12.2 11.9 11.0 11.6 11.1 11.4 11.6 12.9 11.8 13.1 R12.5 13.0 11.0 11.7 R12.1 12.3	U.S. Nuclear Powerplants 50 45 40 35 30 25 20 Monthly Average Power 10 J F M A M J J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M	

^{*}Includes all units authorized to generate commercial electricity, including units in startup testing and those owned by the Government. **Preliminary data.

R=Revised data.

Sources: Capacity data for units in commercial operation or startup testing and Average Power for July 1978 from Nuclear Regulatory Commission. Remaining data from FPC Form 4, "Monthly Powerplant Report."

Status of Nuclear Powerplants-July 31, 1978

Status	Num	Design Capacity				
	Boiling Water Reactors	High Temperature Gas Reactors	Pressurized Water Reactors	Other**	T otal	Net Electrical Megawatts
In operation or startup testing*	26	1	41	2	70	51,000
Construction permit granted	28	0	61	0	89	97,000
Construction permit pending	8	0	26	3	37	42,000
Orders placed for plant	3	0	7	0	10	12,000
Publicly announced	_	_	_	6	6	7,000
TOTAL	64	1	135	12	212	***210.000

^{*}Does not include the Indian Point 1 reactor which is in indefinite shutdown status.

Nuclear Power Generation by Non-Communist Countries-July 1978

Generation of Electricity

Country	Number of Reactors*	Capacity	Electricity Generation	Percent o	Percent of Design Capa		
		Thousands of gross electrical	***************************************		July		
		kilowatts	kilowatt hours	1978	1975	1976	1977
Asia							
Japan .	15	8,780	4,550	70	46	57	41
India	3	620	135	29	46	58	51
Pakistan	1	140	7	7	46	41	28
Taiwan	1	640	299	63	_		_
Europe							
Belgium	3	1,740	1,192	92	83	65	78
England***	31	8,130	2,455	45	57	62	55
Finland	1	440	314	96		_	92
France	13	5,890	2,074	47	68	59	52
Germany (FR)	10	6,410	2,090	44	72	57	64
Italy	3	630	375	80	69	69	61
Netherlands	2 ·	520	373	80	73	84	81
Spain	3	1,120	761	92	77	77	67
Sweden	6	3,850	1,143	40	44	55	59
Switzerland	6 3	1,060	531	67	84	85	87
North America							
Canada†	†8	4,790	3,364	84	64	80	76
United States	68	51,400	26,231	69	56	55	64
South America	•		•				
Argentina	, 1	370	261	96	85	86	55
Total or Average	172	96,530	46,155	64	58	59	62

^{*}Includes fully operational units and those in startup testing which generated electricity during, or prior to, the current month. Capacity and generation figures are shown as gross values, as opposed to net values shown in previous tables of this chapter.

^{**}Includes two dual-purpose Department of Energy-owned reactors, both operating. Also includes 1 Liquid Metal Fast Breeder Reactor and announced intentions to order for which a reactor type has not been chosen.

^{***}Total does not equal sum of components due to independent rounding.

Source: U.S. Department of Energy.

^{**}Averages are computed for those units in operation, including startup units beginning with first month of electricity generation.

^{***}July figures for 21 units are based on a 4-week period; figures for remaining units are for 31 days.

[†]July figures are based on 5-week period.

Source: Nucleonics Week magazine.

U.S. Uranium Enrichment-July 1978

•	Domestic Customers	Foreign Customers	Total
Separative work performed (in metric tons of separative work units)	242.797	478.300	721.097
Cost (in millions of dollars)	19.363	36.949	56.312
Product quantity (in metric tons of uranium)	56.476	131.591	188.067
Feed requirement (in metric tons of uranium)	308.994	637.035	946.029

Source: U.S. Department of Energy.

Summary of Monthly Fuel Cycle-June 1978

Fuel Cycle Activity	Product	Processed Material ¹	Percent Utilization of Industry Capacity	Energy Content of Processed Material ²	Energy Consumed in Fuel Cycle Activity ³	Cost Contribution to Electric Power ⁴
		MTU except where noted		Billio	n Btu	Mills per kilowatt hour
Milling	Yellowcake (U ₃ O ₈) Deliveries	702	87	330,000	449	1.27
Conversion	Uranium Hexa- fluoride (UF ₆) Deliveries	1,006	⁵ 70	342,000	151	0.16
Enrichment	Enriched UF ₆ Deliveries	188 (721 MT-SWU)	(6)	385,000	1,713	1.53
Fabrication	Finished Fuel Assemblies Shipped	43	NA	88,000	11	0.47
Powerplant Operation	Electricity Generated	21,648 (million kWhe)	66	231,000	1,130 (million kWhe)	10.93
Spent Fuel	Stored at Reactor Site	NA	_	_	_)
	Stored at Non-Reactor Sites	1.5	_	_		71.57

NA=Not available. Source: DOE.

¹ Units of measure are discussed in Explanatory Notes 9 and 10.

² Assumes 25,000 MWD/MTU for heat content of enriched uranium and a 6.1 feed to product ratio at the enrichment plant.

³ Energy requirements for processing are obtained from U.S.A.E.C. Report No. WASH 1248.

⁴ Cost contribution is computed from unit prices paid for current month's production and requirement for a model 1000 MWe reactor operating at 65 percent capacity factor. Because of the long lead time required for nuclear fuel processing, the sum of numbers in this column does not necessarily reflect the fuel cost of current electricity production.

⁵ Figure for conversion utilization represents material shipped.

⁶ ERDA's enrichment plants are presently operating at maximum utilization of available electric power, with the excess production being placed in the "preproduction stockpile" in anticipation of high demand for enriched uranium in the 1980's.

7 Figure represents current industry estimate for cost of spent fuel shipment, reprocessing, and waste disposition, exclusive of cost

⁷ Figure represents current industry estimate for cost of spent fuel shipment, reprocessing, and waste disposition, exclusive of cost credits for recovered uranium and plutonium.

Part

Energy Consumption

Domestic energy consumption in June 1978 was 6.1 quadrillion Btu, 2.4 percent more than in June 1977, and 6.4 percent more than in June 1976. The sectoral breakdown for June is not yet available.

In May 1978 the combined residential/commercial sector consumed 2.1 quadrillion Btu, 11.3 percent more than in May 1977 Industrial energy consumption for May 1978 was 2.4 quadrillion Btu, 4.0 percent more than in May 1977. Transportation consumption in May 1978 was 1.7 quadrillion Btu, up 8.5 percent from the May 1977 level.

Cooling Degree-Days

For the period July 31, 1978 through August 27, 1978, the nation accumulated 6 percent more cooling degree-days than normal and 5 percent greater than for the same period in 1977.

National average cumulative cooling degree-days for the period January 1 through August 27, 1978 were 5 percent above normal but 7 percent below the level accumulated during the similar period of 1977.

Consumption

Energy Consumption

Domestic Energy Consumption by Primary Energy Type

		Coal*	Natural Gas (dry)	Petroleum	Hydro- electric Power**	Nuclear Electric Power	Geo- Thermal Power	Total***	Cumulative Total***
		5 00.	()		llion (10 ¹⁵) B				
1972	TOTAL	R12.396	22.699	32.966	2.946	0.576	0.032	71.615	
1973	TOTAL	13.286	22.512	34.852	3.006	0.888	0.043	74.587	
1974	TOTAL	12.948	21.732	33.468	3.312	1.215	0.053	72.728	
1975	TOTAL	12.828	19.948	32.742	3.222	1.839	0.070	70.648	
1976	January	1.215	2.337	3.177	0.281	0.172	0.007	7.188	7.188
1370	February	1.075	1.977	2.791	0.265	0.153	0.007	6.267	13.455
		1.115	1.755	2.948	0.287	0.149	0.007	6.260	19.716
	March	1.065	1.538	2.749	0.261	0.143	0.007	5.736	25.452
	April			2.722	0.276	0.117	0.007	5.664	31.117
	May	1.070	1.463				0.007	5.697	36.814
	June	1.111	1.362	2.774	0.276	0.168	0.007		
	July	1.185	1.399	2.829	0.281	0.189.		5.891	42.704
	August	1.196	1.343	2.835	0.258	0.196	0.007	5.835	48.540
	September	1.096	1.328	2.776	0.222	0.184	0.007	5.613	54.152
	October	1.139	1.653	2.912	0.229	0.185	0.007	6.125	60.277
•	November	1.193	1.912	3.107	0.216	0.172	0.007	6.608	66.885
	December	1.292	2.277	3.503	0.221	0.225	0.007	7.524	74.409
	TOTAL	13.751	20.345	35.123	3.075	2.037	0.078	74.409	
1977	January	1.286	2.434	3.489	0.232	0.236	0.006	7.683	7.683
	February	1.140	1.829	3.143	0.174	0.209	0.006	6.502	14.186
	March	1.144	1.727	3.076	0.223	0.220	0.006	6.397	20.582
	April	1.054	1.436	2.897	0.210	0.212	0.006	5.816	26.398
	May	1.120	1.379	2.890	0.211	0.220	0.006	5.825	32.223
	June	1.177	1.337	2.976	0.196	0.229	0.006	5.922	38.145
	July	1.278	1.330	2.990	0.191	0.233	0.006	6.028	44.173
	August	1.247	1.370	3.068	0.190	0.243	0.006	6.125	50.298
	September	1.161	1.431	2.924	0.188	0.209	0.006	5.919	56.216
	October	1,148	1.520	3.038	0.196	0.203	0.006	6.111	62.327
	November	1.147	1.696	3.040	0.229	0.207	0.006	6.326	68.653
	December	1.228	2.124	3.415	0.254	0.253	0.006	7.281	75.934
	TOTAL	14.129	19.613	36.947	2.493	2.674	0.078	75.934	
1978	January	1.239	2.400	3.355	0.277	0.275	0.007	7.554	7.554
	February	1.050	2.158	3.212	0.250	0.233	0.006	6.909	14.462
	March	1.008	1.927	R3.344	0.273	0.239	0.005	R6.796	R21.258
	April	1.053	1.574	2.975	0.280	0.187	0.004	6.073	R27.331
	•	R1.140	R1.428	3.169	0.200	0.218	0.004	R6.273	R33.604
	May		1.295	3.048	0.310	0.242	0.005	6.062	39.666
	June	1.193	1.255	3.040					33.000
	TOTAL (6 months)	6.682	10.782	19.102	1.675	1.394	0.031	39.666	·

^{*}Includes bituminous coal, lignite, anthracite coal, and net coke imports.

^{**}Includes utility production, industrial production, and net imports.

***Totals may not equal sum of components due to independent rounding.

Source: EIA calculations based on data appearing elsewhere in this publication.

Domestic Energy Consumption by Economic Sector*

			Industrial	Transportation	Total**
			Quadrillio	n (10¹5) Btu	
1973	TOTAL	26.540	29.170	18.877	74.587
1974	TOTAL	25.895	28.572	18.261	72.728
1975	TOTAL	26.177	26.113	18.359	70.648
1976	January	3.113	2.422	1.653	7.188
	February	2.692	2.112	1.463	6.267
	March	2.435	2.200	1.626	6.260
	April	2.089	2.068	1.580	5.736
	May	1.920	2.191	1.553	5.664
	June	1.869	2.229	1.599	5.697
	July	1.974	2.280	1.637	5.891
	August	1.981	2.262	1.592	5.835
	September	1.844	2.212	1.558	5.613
	October	1.955	2.570	1.600	6.125
	November	2.377	2.589	1.642	6.608
	December	3.011	2.719	1.794	7.524
	TOTAL	27.260	27.854	19.295	74.409
1977	January	3.434	2.527	1.722	7.683
	February	2.978	1.944	1.580	6.502
	March	2.508	2.237	1.651	6.397
	April	2.105	2.086	1.624	5.816
	May	R1.931	R2.288	1.607	5.825
	June	1.981	2.293	1.648	5.922
	July	2.124	2.234	1.669	6.028
	August	2.117	2.320	1.688	6.125
,	September	1.964	2.342	1.613	5.919
	October	2.011	2.450	1.649	6.111
	November	2.170	2.512	1.644	6.326
	December	2.838	2.637	1.806	7.281
	TOTAL	R28.161	R27.871	19.901	75.934
1978	January	3.292	2.562	1.700	7.554
. = - =	February	3.148	2.148	1.612	6.909
	March	R2.868	R2.152	R1.775	R6.796
	April	2.273	2.184	1.616	
	May	2.149	2.380	1.744	6.073 6.273
	TOTAL (5 months)	13.731	11.426	8.447	33.604

^{*}See Explanatory Note 11 for definitions of the Residential/Commercial, Industrial, and Transportation sectors. The methodology used for sector calculations is provided in the footnotes of the next table.
**Totals may not equal sum of components due to independent rounding.
R=Revised data.

Energy Consumption by Economic Sector and Primary Source—May 1978 [Quadrillion (1015) Btu]

Sector ¹			Primary Energy Source				Primary			Electrical	Ultimate
	Coal ²	Natural Gas (dry) ³	Petroleum ⁴	Hydroelectric ⁵	Nuclear ⁶	Geothermal	Energy Consumption	Electricity Distributed ⁷	Net Energy Consumption	Energy Loss Distributed ⁸	Energy Disposition
Residential and Commercia	1 0.018	0.493	0.621	_	-	_	1.131	0.279	1.410	0.739	2.149
Industrial	0.319	0.625	0.603	0.001	_	_	1.549	0.228	1.776	0.604	2.380
Transportation	negl.	0.042	1.685	-	negl.		1.726	0.005	1.731	0.013	1.744
Electric Utilities	0.803	0.269	0.260	0.314	0.218	0.004	1.867	_	-	_	_
TOTAL	1.140	1.428	3.169	0.316	0.218	0.004	6.273	0.512	4.918	1.356	6.273

¹ See Explanatory Note 11 for definitions of the Residential and Commercial, Industrial, Transportation, and Electric Utilities Sectors.

² Data are from the Energy Information Administration. Includes anthracite, bituminous coal and lignite, and net coke imports.

³ Aggregate data and data on utility consumption are from the Energy Information Administration. Data from the American Gas Association are used for the Residential and Commercial Sector, which includes 100 percent of the AGA "Other" category. Natural gas used in transportation, mostly for pipeline use, is estimated to be 3.6 percent of total natural gas consumption less electric utilities. This percentage is derived from 1974, 1975, and 1976 Bureau of Mines data on consumption. The Industrial Sector is then the difference between the total and the sum of the other sectors.

⁴ Aggregate petroleum data and data on oil consumed by electric utilities are from the Energy Information Administration. Petroleum consumed in

transportation was calculated based on Department of Transportation data as follows: Motor gasoline - 100 percent; naphtha jet fuel - 100 percent; kerosene jet fuel - 97 percent; distillate fuel oil - 30.3 percent; residual fuel oil - 11.2 percent; all other products - 4.7 percent. The remainder is distributed to economic sectors using the following percentage shares, derived from 1974, 1975, and 1976 Bureau of Mines data on consumption: Residential and Commercial - 50.7 percent; Industrial - 49.3 percent. 5 EIA hydroelectric power production plus net imports of electricity. These imports are assumed to be from hydroelectric power sources and are estimated at 0.011 quadrillion Btu per month in 1974, 0.005 quadrillion Btu per month for 1975, and 0.007 quadrillion Btu per month for 1976 and 0.015 quadrillion Btu per month for 1977 and 1978. Monthly industrial hydroelectric power consumption is estimated to be onetwelfth of the preliminary Bureau of Mines annual figure for 1976.

Piectricity was distributed using EIA data on kilowatt-hour sales to ultimate customers. Electrical energy consumed by railroads and for street and highway lighting was distributed to the Transportation Sector. All "Other" sales, largely for use in government buildings, were distributed to the Residential and Commercial Sector.

⁸ In generating electricity with nuclear or fossil fuels, approximately 65 percent of the energy is lost in the form of heat. Transmission and distribution losses consume about an additional 3 percent of the energy inputs of the utility industry. In order to fully account for all energy consumed both directly and indirectly (i.e., ultimate energy disposition), the electricity losses are allocated to the final end-use sectors in proportion to their direct kilowatt-hour usage.

Energy Consumption (Continued)

Percent Changes in Energy Consumption for May 1978 by Sources and Economic Sectors

	May 1978 Consumption	Percent Change from May 1977*	Cumulative Percent Change from 1977 (January through May)*
	Quadrillion Btu		
Refined Petroleum Products	3.169	+9.7	+3.6
Motor Gasoline Jet Fuel	1.260 0.173	+10.1 +0.6	+3.3 +1.1
Distillate Residual Other Petroleum Products	0.549 0.518 0.668	+9.4 -2.2 +21.0	+2.7 +3.0 +6.3
Natural Gas (Dry)	1.428	+3.6	+7.8
Coal (Anthracite, bituminous, lignite and net coke imports)	1.140	+1.7	-4.4
Hydroelectric and Nuclear Electric Power and Geothermal Power	0.537	+23.0	+2.7
TOTAL ENERGY USE	6.273	+7.7	+4.3
Economic Sector Consumption			
Residential and Commercial Industrial Transportation	2.149 2.380 1.744	+11.3 +4.0 +8.5	+6.0 +3.1 +3.2

^{*}Computed on a daily average basis.

Energy Consumption (Continued)

Energy Consumption by the Residential and Commercial Economic Sector¹

		Coal	Natural Gas (dry)	Petroleum ²	Electricity Distributed	Electrical Energy Loss Distributed	Total Energy Use	Cumulative Total Energy Use
				Qua	drillion (1015) B	tu		-
1973	TOTAL	0.295	7.577	7.077	3.445	8.145	26.540	
1974	TOTAL	0.297	7.427	6.484	3.424	8.263	25.895	
1975	TOTAL	0.253	7.688	6.135	3.538	8.562	26.177	
1976	January February March April May June July August September October November December	0.031 0.019 0.018 0.020 0.016 0.015 0.011 0.015 0.016 0.020 0.025 0.036	1.254 1.090 0.856 0.671 0.488 0.333 0.281 0.259 0.272 0.395 0.723 1.083	0.648 0.581 0.571 0.500 0.506 0.488 0.486 0.506 0.518 0.569 0.622 0.730	0.340 0.315 0.286 0.271 0.265 0.285 0.333 0.347 0.331 0.286 0.288	0.840 0.687 0.703 0.627 0.646 0.749 0.862 0.855 0.706 0.685 0.719 0.832	3.113 2.692 2.435 2.089 1.920 1.869 1.974 1.981 1.844 1.955 2.377 3.011	3.113 5.805 8.240 10.328 12.249 14.117 16.092 18.073 19.917 21.872 24.250 27.260
	TOTAL	0.243	7.706	6.726	3.676	8.909	27.260	
1977	January February March April May June July August September October November December	0.035 0.024 0.019 0.020 0.016 0.015 0.014 0.015 0.018 0.025 0.030	1.376 1.216 0.845 0.623 0.405 0.315 0.283 0.256 0.264 0.376 0.552 0.952	0.712 0.674 0.608 0.538 0.529 0.544 0.503 0.551 0.651 0.612 0.611 0.685	0.367 0.347 0.306 0.278 R0.273 0.311 0.366 0.373 0.350 0.306 0.284 0.326	0.943 0.718 0.731 0.646 R0.707 0.796 0.959 0.924 0.784 0.699 0.699 0.845	3.434 2.978 2.508 2.105 R1.931 1.981 2.124 2.117 1.964 2.011 2.170 2.838	3.434 6.412 8.921 11.026 R12.956 R14.937 R17.061 R19.178 R21.142 R23.153 R25.323 R28.161
1978	January February March April May TOTAL (5 months)	0.246 0.029 0.029 0.023 0.020 0.018 0.119	1.257 1.283 1.059 0.697 0.493 4.789	0.674 0.647 R0.637 0.589 0.621 3.168	0.369 0.361 0.337 0.287 0.279	0.961 0.828 R0.812 0.680 0.739	3.292 3.148 R2.868 2.273 2.149	3.292 6.440 R9.308 R11.582 13.731

Energy Consumption by the Industrial Economic Sector¹

		Coal	Natural Gas (dry)	Petroleum³	Hydro- electric	Electricity Distributed	Electrical Energy Loss Distributed	Total Energy Use	Cumulative Total Energy Use
					Quadr	illion (10¹⁵) Bt	u		
1973	TOTAL	4.362	10.493	6.403	0.036	2.341	5.535	29.170	
1974	TOTAL	4.121	10.137	6.305	0.036	2.337	5.637	28.572	
1975	TOTAL	3.812	8.425	5.966	0.035	2.302	5.573	26.113	
1976	January	0.315	0.794	0.630	0.003	0.196	0.484	2.422	2.422
	February	0.297	0.618	0.565	0.003	0.198	0.432	2.112	4.534
	March	0.315	0.616	0.556	0.003	0.206	0.505	2.200	6.734
	April	0.313	0.587	0.487	0.003	0.205	0.474	2.068	8.802
	May	0.320	0.658	0.492	0.003	0.209	0.509	2.191	10.993
	June	0.306	0.670	0.475	0.003	0.214	0.562	2.229	13.223
	July	0.306	0.734	0.473	0.003	0.213	0.551	2.280	15.503
	August	0.302	0.709	0.492	0.003	0.218	0.538	2.262	17.764
	September	0.300	0.716	0.504	0.003	0.220	0.469	2.212	19.976
	October	0.320	0.951	0.554	0.003	0.218	0.523	2.570	22.546
	November	0.325	0.905	0.605	0.003	0.215	0.537	2.589	25.135
	December	0.355	0.900	0.710	0.003	0.214	0.538	2.719	27.854
	TOTAL	3.775	8.859	6.540	0.033	2.525	6.123	27.854	
1977	January	0.317	0.767	0.693	0.001	0.210	0.540	2.527	2.527
	February	0.305	0.349	0.655	0.001	0.206	0.427	1.944	4.472
	March	0.323	0.591	0.591	0.001	0.216	0.515	2.237	6.708
	April	0.304	0.541	0.523	0.001	0.216	0.501	2.086	8.795
	May	0.303	0.667	0.514	0.001	R0.223	R0.578	R2.288	R11.082
	June	0.295	0.667	0.529	0.001	0.225	0.576	2.293	R13.375
	July	0.287	0.657	0.489	0.001	0.221	0.579	2.234	R15.610
	August	0.275	0.718	0.536	0.001	0.227	0.562	2.320	R17.929
	September	0.274	0.795	0.536	0.001	0.227	0.509	2.342	R20.272
	October	0.302	0.807	0.595	0.001	0.227	0.518	2.450	R22.722
	November	0.298	0.851	0.594	0.001	0.222	0.546	2.512	R25.234
	December	0.309	0.878	0.666	0.001	0.218	0.565	2.637	R27.871
	TOTAL	3.592	8.288	6.920	0.017	R2.637	R6.417	R27.871	
1978	January	0.285	0.830	0.656	0.001	0.219	0.571	2.562	2.562
	February	0.245	0.589	0.630	0.001	0.208	0.476	2.148	4.710
	March	0.248	0.568	R0.619	0.001	0.210	R0.506	R2.152	R6.863
	April	0.286	0.599	R0.572	0.001	0.215	0.510	2.184	R9.046
	May	0.319	0.625	0.603	0.001	0.228	0.604	2.380	11.426
	TOTAL (5 months)	1.383	3.211	3.080	0.007	1.080	2.666	11.426	

Energy Consumption (Continued)

Energy Consumption by the Transportation Economic Sector¹

		Coal	Natural Gas⁴ (dry)	Petroleum	Electricity Distributed	Electrical Energy Loss Distributed	Total Energy Use	Cumulative Total Energy Use
				Qua	drillion (10¹⁵) Btu			
1973	TOTAL	0.009	0.733	17.940	0.058	0.137	18.877	
1974	TOTAL	0.009	0.656	17.392	0.060	0.145	18.261	
1975	TOTAL	0.001	0.602	17.544	0.062	0.150	18.359	
1976	January February March April May June July August September October November December	negl. negl. negl. negl. negl. negl. negl. negl. negl.	0.076 0.064 0.055 0.047 0.043 0.037 0.038 0.036 0.037 0.050 0.061 0.074	1.556 1.382 1.552 1.516 1.493 1.545 1.581 1.538 1.504 1.531 1.561 1.699	0.006 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.006	0.015 0.012 0.013 0.012 0.012 0.012 0.013 0.013 0.011 0.013 0.014	1.653 1.463 1.626 1.580 1.553 1.599 1.637 1.592 1.558 1.600 1.642 1.794	1.653 3.116 4.741 6.322 7.875 9.473 11.110 12.702 14.260 15.859 17.501 19.295
	TOTAL	negi.	0.619	18.457	0.064	0.155	19.295	
1977	January February March April May June July August September October November December TOTAL January February	negl.	0.080 0.058 0.054 0.043 0.040 0.037 0.035 0.040 0.044 0.052 0.068 0.588 0.078 0.070	1.620 1.503 1.580 1.564 1.549 1.594 1.616 1.635 1.557 1.587 1.571 1.717 19.094	0.006 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.006 0.006	0.016 0.012 0.012 0.012 0.013 0.012 0.013 0.012 0.011 0.012 0.014 0.015 0.155 0.016 0.013	1.722 1.580 1.651 1.624 1.607 1.648 1.669 1.688 1.613 1.649 1.644 1.806 19.901	1.722 3.302 4.953 6.577 8.185 9.833 11.502 13.190 14.803 16.452 18.095 19.901
	March April May TOTAL (5 months)	negl. negl. negl. negl.	0.061 0.048 0.042 0.299	R1.696 1.550 1.685 8.053	0.005 0.005 0.005 0.005	0.013 0.012 0.013 0.068	R1.775 1.616 1.744 8.447	R5.087 R6.703 8.447

¹ See Explanatory Note 11 for definitions of the Residential and Commercial, Industrial, and Transportation Sectors. The methodology used for sector calculations is provided in the footnotes of a previous table. Printed totals may differ slightly from the sum of their row/column components due to independent rounding.

² The percentage share used in calculating Residential and Commercial consumption of petroleum was 52.5 percent for 1973 and 50.7 percent for 1974, 1975, 1976, 1977, and 1978.

³ The percentage share used in calculating Industrial consumption of petroleum was 47.5 percent for 1973 and 49.3 percent for 1974, 1975, 1976, 1977, and 1978.

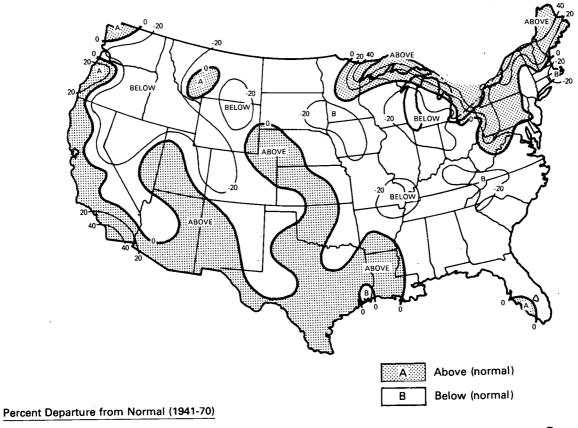
⁴ The percentage share used in calculating Transportation consumption of natural gas was 3.9 percent for 1973 and 3.6 percent for 1974, 1975, 1976, 1977, and 1978. This percentage share is applied to total natural gas minus electric utility consumption. R=Revised data.

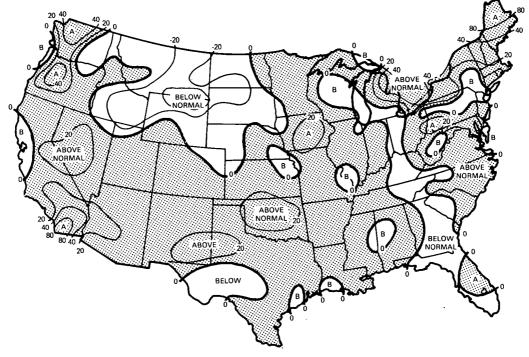
Cooling Degree-Days*

Petroleum Administration For Defense (PAD) Districts	1978	July 31, 1977**		ust 27, 19 Norma	78 I (1 94 1-70)**	Cui 1978	mulative Ja 1977**	anuary 1- <i>l</i>	August 27, 1 Normal	978 (1941-70)**
PAD District I New England Conn., Maine, Mass., N.H., R.I., Vt.	313.3 186.7	292.5 202.8	(7. <u>1)</u> (-7.9)	282.1 172.4	(11.1) (8.3)	1,023.4 559.5	1,102.3 656.0	(-7.2) (-14.7)	1,001.6 509.9	(2.2) (9.7)
Middle Atlantic Del., Md., N.J., N.Y., Pa.	279.4	236.0	(18.4)	245.1	(14.0)	790.2	819.8	(-3.6)	772.2	(2.3)
Lower Atlantic Fla., Ga., N.C., S.C., Va., W. Va.	419.9	416.9	(0.7)	385.8	(8.8)	1,577.6	1,723.3	(-8.5)	1,562.2	(1.0)
PAD District II III., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N. Dak., Ohio, Okla., S. Dak., Tenn., Wisc.	259.2	217.7	(19.1)	253.9	(2.1)	863.1	1,007.9	(-14.4)	824.2	(4.7)
PAD District III Ala., Ark., La., Miss., N. Mex., Tex.	500.1	505.7	(-1.1)	486.8	(2.7)	1,990.2	2,010.1	(-1.0)	1,881.2	(5.8)
PAD District IV Colo., Idaho, Mont., Utah, Wyo.	193.1	217.2	(-11.1)	210.5	(-8.3)	618.6	726.3	(-14.8)	590.8	(4.7)
PAD District V Ariz., Calif., Nev., Oreg., Wash.	202.4	244.9	(-17.4)	185.5	(9.1)	696.1	667.5	(4.3)	591.4	(17.7)
U.S. AVERAGE	299.3	285.0	(5.0)	281.9	(6.2)	1,030.0	1,108.9	(-7.1)	980.5	(5.0)

^{*}See Explanatory Note 12 for explanation of degree-days.
**Percentage change in parentheses.

Percent Departure from 1977





Note: Above normal cooling degree-days correspond to above normal temperature Source: Department of Commerce—NOAA.

Oil and Gas Exploration and Development

The rotary rig count climbed to 2,325 in August 1978, the highest August count since 1957.

Well completions dropped in July 1978 to 3,679. For the January-July 1978 period the number of wells drilled was up 7.7 percent from the number drilled during the corresponding period in 1977. Compared to the first seven months of 1977, oil well completions in 1978 were down 2.6 percent, while gas wells were up 19.9 percent and dry holes were up 12.3 percent. Total footage drilled rose 10.6 percent during the period.

Part &

Resource Development

Oil and Gas Exploration and Development

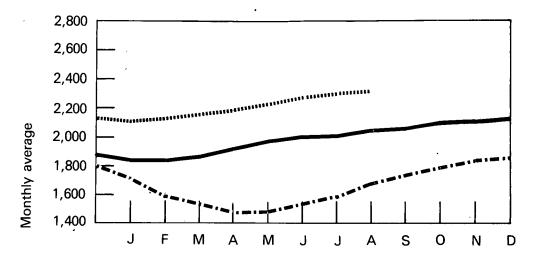
		Rotary Rigs in Operation	Exploratory and Development Wells Drilled*				Total Footage of Wells Drilled*	
		Monthly Average		Oil	Gas	Dry	Total	Thousands of feet
1972	AVERAGE	1,107	TOTAL	11,306	4,928	11,057	27,291	134,602
1973	AVERAGE	1,194	TOTAL	9,902	6,385	10,305	26,592	136,391
1974	AVERAGE	1,475	TOTAL	12,784	7,240	11,674	31,698	150,551
1975	AVERAGE	1,660	TOTAL	16,408	7,580	13,247	37,235	174,434
1976	January February March April May June July August September October November December AVERAGE	1,710 1,594 1,540 1,480 1,496 1,546 1,597 1,691 1,744 1,794 1,840 1,860	TOTAL**	1,465 1,341 1,726 1,237 1,501 1,500 1,312 1,265 1,474 1,396 1,291 1,512	772 652 821 672 658 709 730 711 909 750 698 926	1,055 1,159 1,301 994 1,104 1,123 916 1,140 1,199 1,123 1,222 1,414 13,621	3,292 3,152 3,848 2,903 3,263 3,332 2,958 3,116 3,582 3,269 3,211 3,852 39,765	14,517 14,888 18,126 13,765 14,196 14,780 13,716 14,697 16,777 14,542 14,642 17,093
1977	January February March April May June July August September October November December	1,850 1,856 1,887 1,907 1,982 2,008 2,023 2,066 2,084 2,101 2,113 2,141 2,001	TOTAL**	1,391 1,321 1,817 1,405 1,382 1,720 1,304 1,400 1,924 1,562 1,785 1,875	732 705 958 818 877 952 724 961 1,105 1,024 1,091 1,387	1,096 999 1,297 1,059 1,150 1,270 1,022 1,179 1,288 1,254 1,447 1,569	3,219 3,025 4,072 3,282 3,409 3,942 3,050 3,540 4,317 3,840 4,323 4,831	14,517 14,443 19,400 15,523 16,702 18,767 14,529 16,838 19,333 18,000 19,537 21,365
1978	January February March April May June July August AVERAGE (8 months)	2,128 2,135 2,158 2,198 2,249 2,286 2,307 2,325 2,223	TOTAL** (7 months	1,184 1,486 1,499 1,369 1,209 1,812 1,503 NA 10,070	783 851 1,247 971 1,004 1,071 985 NA 6,915	1,233 1,239 1,420 1,112 1,166 1,489 1,191 NA 8,862	3,200 3,576 4,166 3,452 3,379 4,372 3,679 NA 25,847	15,394 16,933 20,392 17,559 17,189 21,115 17,258 NA

^{*}Excludes service wells and stratigraphic and core tests.
**Totals reflect subsequent data revisions and therefore may not agree with cumulative monthly data.

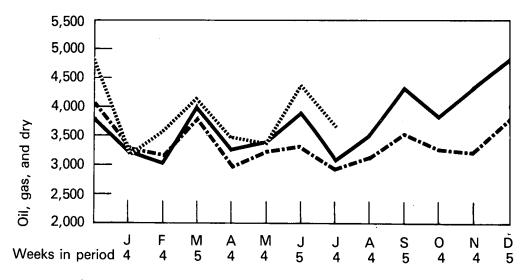
NA=Not available.

Sources: Rotary Rigs: Hughes Tool Company "Rotary Rigs Running – By State;" Wells: American Petroleum Institute "Monthly Drilling Report" and "Quarterly Review of Drilling Statistics for the United States."

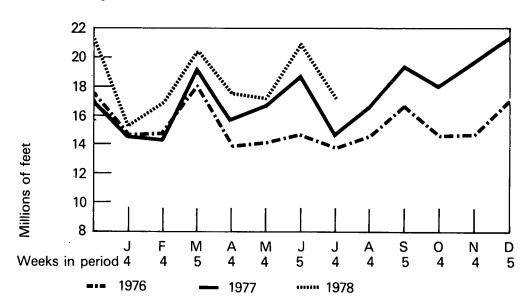
Rotary Rigs in Operation



Total Wells Drilled



Total Footage of Wells Drilled



Oil and Gas Exploration and Development (Continued)

		Crews Engaged in Seismic Exploration			Line Miles	of Seismic Ex			
		Offshore	Onshore	Total	Offshore	Onshore	Total		
		Mor	thly average)	Мо	nthly averag	е		
1972	Year	12	239	251	10,306	9,333	19,639		
1973	Year	23	227	250	21,579	10,597	32,175		
1974	Year	31	274	305	28,482	13,219	41,701		
1975	Year	30	254	284	25,773	12,558	38,331		
1976	Year	25	237	262	18,859	11,910	30,769		
1977	Year	27	281	308	NA	NA	NA	•	
1976	January February March April May June July August September October November December January February	20 17 18 17 21 29 30 33 28 21 25 27	232 232 222 221 226 229 240 242 240 246 250 259	252 249 240 238 247 258 270 275 268 267 275 286 280 286					
1978	March April May June July August September October November December January February March April May	22 26 29 31 30 31 29 28 26 26 26 26 27 20 21	260 266 272 274 285 295 291 302 309 303 302 305 314 315 330	282 292 301 305 315 326 320 330 335 329 328 328 334 336 351	Total Seismic Cr 375 350 325 300 275 250 225 200			~	
	June July AVERAGE (7 months)	26 26 23	336 341 320	362 367 344	JFMAM	J J A S O N D J 1976	F M A M J J A S O 1977		JASOND 978 1976 1977 1978

NA=Not available.

Source: Society of Exploration Geophysicists "Monthly Seismic Crew Count" and annual reports published in Geophysics.

Price

Crude Oil

The average price of domestic crude oil purchased by refiners in June was \$10.69 per barrel (including transportation costs), \$1.35 above the price 1 year earlier.

The average cost of imported crude oil purchased by refiners was \$14.54 per barrel (including transportation costs to U.S. refineries) in June, 9 cents below the average price 1 year earlier.

The composite refiner acquisition cost of domestic and imported crude oil was \$12.48 per barrel (including transportation costs) in June, up 50 cents from the price 1 year earlier.

The average price paid by first purchasers for lower tier crude oil was \$5.45 per barrel in June, up 29 cents from the price a year ago. The Alaskan North Slope price was \$5.66 per barrel in June, an increase of 79 cents above the record low reported in the previous month. The average price paid for all first purchases of domestic crude oil in June was \$9.04 per barrel, up 60 cents from the price 1 year earlier.

Motor Gasoline

Preliminary data from the U.S. Department of Energy retail motor gasoline survey indicate that, nationally, leaded regular gasoline at full serve pumps sold for an average of 63.4 cents per gallon, which is 0.9 cents above the price in May. The price for unleaded regular gasoline at full serve pumps increased 1 cent to 67.9 cents per gallon, which was 4.5 cents above the price for leaded regular gasoline at full serve pumps. Self serve leaded and unleaded regular gasoline prices were 59.1 and 63.9 cents per gallon, respectively. Retail dealers paid an average of 55.2 cents per gallon for leaded regular gasoline.

On a regional basis, average selling prices for leaded regular gasoline at full serve pumps ranged from 61.7 cents in Region 6 (0.6 cent above the revised May price) to 68.6 cents in Region 9 (1.4 cents above the revised May price). At self serve pumps leaded regular gasoline prices ranged from 56.2 cents in Region 6 (1.2 cents higher than the revised May price) to 64 cents in Region 10 (1.1 cents higher than the May price). The average price for unleaded regular gasoline at full serve

pumps ranged from 65.6 cents in Region 6 (0.8 cent higher than the May price) to 72.8 cents in Region 9 (1.1 cents higher than the revised May price). At self serve pumps, this price ranged from 60.6 cents in Region 6 (0.9 cent higher than the revised May price) to 68.2 cents in Region 9 (1.7 cents higher than the revised May price).

Average regional dealer buying prices for leaded regular gasoline ranged from 51.9 cents in Region 6 (0.6 cent higher than the May price) to 58.2 cents in Region 10 (0.9 cent higher than the revised May price). For unleaded regular gasoline this price ranged from 54.8 cents in Region 6 (0.5 cent higher than the revised May price) to 61 cents in Region 10 (1 cent higher than the revised May price).

Aviation Fuels

The average retail price of kerosene-type aviation fuel increased by 0.3 cent in June to 38.9 cents per gallon. The price has increased a total of 3.2 cents from the price 1 year earlier.

Heating Oil

The average price of heating oil sold to residential customers decreased 0.1 cent in June to 48.2 cents per gallon. This was a 2.5 cent increase over the price a year ago, and a 9 cent increase from May 1976, the last month this product was subject to price controls.

Residual Fuel Oil

The average retail price for all grades of No. 6 residual fuel oil in June was \$12.50 per barrel, a 29 cent decrease from the May price and a 52 cent decrease from the price 1 year earlier.

Liquefied Petroleum Gases

The average wholesale price of butane sold in June was 22.9 cents per gallon. This price is 2.7 cents lower than the price 1 year earlier. The average price of propane dropped 0.4 cent in June to 23.3 cents per gallon, which is 1.2 cents lower than the price 1 year earlier.

Part 9

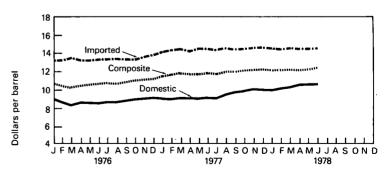
Price

Crude Oil

Refiner Acquisition Cost of Crude Petroleum*

		Domestic	Imported	Composite
		C	Oollars per barrel	
1974	AVERAGE	7.18	12.52	9.07
1975	AVERAGE	8.39	13.93	10.38
1976	January February March April May June July August September October November December AVERAGE	9.14 8.67 8.48 8.66 8.62 8.60 8.72 8.65 8.95 9.13 9.23 9.25 8.84	13.27 13.26 13.51 13.39 13.41 13.48 13.51 13.58 13.47 13.49 13.58 13.71	10.76 10.54 10.44 10.63 10.66 10.88 10.97 10.78 11.08 11.20 11.26 11.32
1977	January February March April May June July August September October November December AVERAGE	9.23 9.24 9.32 9.21 9.21 9.34 9.32 9.54 9.75 9.95 10.17 10.15	14.11 14.50 14.54 14.36 14.62 14.63 14.44 14.68 14.50 14.56 14.61 14.76	11.64 11.80 11.88 11.75 11.87 11.98 11.90 12.01 12.01 12.12 12.18 12.27 11.96
1978	January February March April May** June**	10.14 10.25 10.46 10.55 10.60 10.69	14.52 14.41 14.57 14.40 R14.51 14.54	12.13 12.19 12.23 12.20 R12.35 12.48

Crude Oil Refiner Acquisition Cost



Sources: 1974 through January 1976—Form FEO-96 "Monthly Cost Allocation Report;" February 1976 forward—FEA Form P110-M-1 "Refiners' Monthly Cost Allocation Report."

^{*}See Explanatory Note 13.

^{**}Preliminary data.

R=Revised data.

Domestic Crude Petroleum Prices at the Wellhead¹

		Old	New	Domestic Average					Lower Tier ²	Upper		Actual Domesti		stic		
		Dolla	rs per b	arrel					i ier-	Tier ²	Stripper ³	Average	⁴ Avera	ge•		
	AVERAGE AVERAGE January	5.03 5.03 5.02	10.13 12.03 12.99	6.87 7.67 8.63			1977	January February March April May	5.17 5.18 5.15 5.15 5.18	11.44 11.39 11.03 10.97 10.98	13.27 13.32 13.31 13.28 13.26	8.50 8.57 8.45 8.40 8.49	8.28 8.33 8.19 8.14 8.23			
1370	January		Upper Tier ²					June	5.16 Lov Tie		13.28 Upper Tier ²	8.44 Actual Stripper ³	8.17 Alaskan North Slope ⁵		Actual Domestic Average ⁴	Imputed Domestic Average ⁴
	February March April May June July August	5.05 5.07 5.07 5.13 5.15 5.19 5.18	11.47 11.39 11.52 11.55 11.60 11.59 11.62	7.87 7.79 7.86 7.89 7.99 8.04 8.03				July August September October November December	5.16 5.18 5.20 5.23 5.24 5.25	6 8 9	11.00 10.93 11.20 11.42 11.63 11.76	13.31 13.95 14.01 14.01 13.98 13.98	6.84 6.91 6.98 6.66 5.73 5.73	12.21 12.29 12.33 12.38 12.40 12.36	8.48 8.62 8.63 8.72 8.72 8.77	8.21 8.25 8.26 8.36 8.35 8.40
1976	September October November December AVERAGE	Lower Tier ² 5.17 5.15 5.17 5.17 5.13	Upper Tier ² 11.65 11.62 11.62 11.64 11.71	Actual Stripper ³ 13.21 13.35 13.31 13.30 12.16	Actual Domestic Average ⁴ 8.39 8.46 8.62 8.62 8.19	Imputed Domestic Average ⁴ 8.19 8.23 8.40 8.40	1978	AVERAGE January February March April May June ⁷	5.19 5.29 5.34 5.35 5.38 5.45	3		13.59 13.89 13.90 13.97 13.95 13.95 13.95	6.35 5.30 5.68 5.00 5.15 4.87 5.66	12.34 12.38 12.46 12.60 12.67 12.70 13.08	8.57 8.68 8.84 8.80 8.82 R8.81 9.04	8.34 8.48 8.41 8.44 8.43 8.68

¹ See Explanatory Note 14.

² See Definitions.

³ Stripper oil was exempt from price controls beginning September 1, 1976. From February through August 1976 stripper oil was subject to upper tier price ceilings.

The actual domestic average price represents the average price at which all domestic crude oil is purchased. The imputed domestic average price is the average price used to establish ceiling prices for domestic crude oil in accordance with the provisions of the Energy Conservation and Production Act. It is calculated as the weighted average of lower tier, upper tier, and an imputed stripper crude oil price. The imputed stripper crude oil price is equal to \$11.63 per barrel plus the difference between the composite price of crude oil in August 1976 (excluding stripper oil) and the composite price of crude oil in the month of measurement (excluding stripper oil).

⁵ Alaskan North Slope (ANS) crude oil prices are treated as Upper Tier for determining the applicable wellhead ceiling prices. ANS is included in both the Actual Domestic Average and the Imputed Domestic Average price determinations.

⁶ The Naval Petroleum Reserves (NPR) are exempt from pricing regulations but have been reported here as Upper Tier prior to July 1977. NPR is included in the Actual Domestic Average price determinations, but not in the Imputed Domestic Average.

⁷ Preliminary data based on early reports.

R= Revised data.

Sources: 1974 through January 1976 – Form FEA-90 "Crude Petroleum Production Monthly Report;" February 1976 forward – FEA Form P124-M-O "Domestic Crude Oil Purchasers Report."

Crude Oil (Continued)

Percentages of Domestic Production Sold at the Wellhead

		Old Oil	New Oil	Released	Stripper		
1975	January*	58	19	10	12		
1070	February*	61	17	9	12		
	March	60	18	10	12		
	April	61	17	9	12		
	May	62	17	8	13		
	June	63	16	8	13		
	July	62	16	8	14		
		63	16	7	14		
	August	63	15	7	14		
	September*			7	14		
	October	63	16	7			
	November	64	15	7	14 14		
	December	63	16	,	14		
	AVERAGE	62	16	8	13		
1976	January	54	21	10	15		
		Lower Tier	U	oper Tier			
	February	56	30	_	14		
	March	57	29	_	14		
	April	57	29		14		
	May	57	29	<u>-</u>	14		
	June	56	29	_	15		
	July	56	30	_	14		
	August	56	30	-	14		
		Lower Tier	Upper Tier	•	Stripper		
	September	53.4	33.7		12.9		
	October	52.4	34.7		12.9		
	November	49.9	36.6		13.4		
	December	50.1	36.4		13.6		
	AVERAGE	54.4	31.5		14.1		
1977	January	50.6	36.7		12.7		
	February	49.5	37.2		13.3		
	March	49.2	37.2		13.6		
	April	49.5	36.9		13.6		
	May	48.4	37.6		14.0		
	June	48.8	37.0		14.2		
					044	Alaskan North	Naval Petroleum
			Upper Tier	•	Stripper	Slope**	Reserve**
	July	46.75	36.59		13.30	2.58 5.79	0.75 0.91
	August	43.31	36.65		13.32		
	September	42.78	34.07		13.14	9.06	0.91
	October	42.23	34.58		12.92	9.09	1.15
	November	41.41	34.67		13.00	9.84	1.05
	December	40.42	34.61		13.00	10.92	1.03
	AVERAGE	45.92	36.11		13.32	4.14	0.51
1978	January	41.73	34.19		12.69	10.17	1.19
	February	40.78	34.35		13.68	9.94	1.23
	March	39.24	34.06		13.98	11.76	0.92
	April	37.94	34.04		13.72	13.26	1.02
	May		R34.03		R13.76	R13.05	.97
	June***	36.81	34.97		13.90	13.46	.85
	Julie	30.01	J 7 .J/		10.00	10.40	.00

^{*}Totals do not add to 100 due to rounding.

Sources: January 1975 through January 1976—Form FEA-90 "Crude Petroleum Production Monthly Report;" February 1976 through August 1976—FEA Form P124-M-0 "Domestic Crude Oil Purchasers Report" for Lower Tier percentages and EIA estimates for Upper Tier percentages; September 1976 forward—FEA Form P124-M-0 "Domestic Crude Oil Purchasers Report."

^{**}See footnotes 5 and 6 of previous table.

^{***}Preliminary.

R=Revised data.

Estimated FOB Cost of Imported Crude Petroleum from Selected Countries*

		Algeria	Canada	Indonesia	Iran	Libya	Nigeria	Saudi Arabia	U.A. Emirates	Venezuela
					Do	ollars per ba	irrei			
1976	January	12.96	NA	12.77	11.61	12.34	12.85	11.67	11.91	11.15
	February	12.89	NA	12.77	11.48	12.34	12.85	11.64	11.93	11.61
	March	12.93	NA	12.78	11.45	12.34	12.94	11.71	11.91	11.26
	April	12. 9 8	NA	12.74	11.58	12.39	12.95	11.72	11.94	11.38
	May	13.01	NA	12.76	11.58	12.45	12.97	11.61	11.85	11.10
	June	13.02	NA	12.74	11.62	12.40	12.97	11.64	11.92	11.03
	July	13.06	NA	12.79	11.64	12.64	13.11	11.58	11.89	10.87
	August	13.06	NA	12.75	11.61	12.52	13.08	11.58	11.92	11.19
	September	13.12	NA	12.73	11.66	12.66	13.06	11.55	11.97	11.53
	October	13.09	NA	12.79	11.63	12.70	13.25	11.65	11.92	11.41
	November	13.12	NA	12.71	11.62	12.74	13.25	11.62	11.96	11.58
	December	13.21	NA	12.82	11.78	12.83	13.36	11.65	12.16	11.77
1977	January	14.03	NA	13.41	12.03	13.64	14.11	11.92	12.53	12.91
	February	14.31	NA	13.43	12.36	13.89	14.24	12.04	12.33	13.30
	March	14.29	NA	13.58	12.79	13.87	14.32	12.24	12.51	12.98
	April	14.34	NA	13.55	12.79	13.98	14.51	12.23	12.53	12.62
	May	14.31	NA	13.57	12.78	13. 9 3	14.56	12.23	12.56	12.60
	June	14.35	NA ·	13.55	12.68	13. 94	14.55	12.21	12.44	12.53
	July	14.43	NA	13.61	12.78	13.99	14.52	12.40	12.70	12.48
	August	14.48	NA	13.63	12.80	13.95	14.54	12.56	13.15	12.37
	September	14.43	NA	13.64	12.73	13.99	14.56	12.72	13.20	12.55
	October	14.43	NA	13.65	12.79	13.93	14.48	12.70	13.22	12.72
	November	14.37	NA	13.65	12.75	13.88	14.53	12.73	13.33	12.71
	December	14.44	NA	13.61	12.71	13.85	14.45	12.77	13.27	12.56
1978	January	14.29	NA	13.67	12.62	13.77	14.18	12.70	13.23	12.73
	February	14.21	NA	13.62	12.68	13.91	14.18	12.78	13.18	12.61
	March	14.19	NA	13.62	12.68	13.75	14.13	12.80	13.20	12.86
	April	14.09	NA	13.61	12.68	13.62	13.91	12.74	13.23	12.54
	May	13.99	NA	13.51	12.65	13.59	13.90	12.71	13.05	12.13
	June	14.06	NA	13.63	12.58	13.59	13.90	12.67	13.28	12.32

NA= Not available.
*The FOB cost excludes all costs related to insurance and transportation. See Explanatory Note 15.
Source: FEA Form F701-M-0 "Transfer Pricing Report."

Crude Oil (Continued)

Estimated Landed Cost of Imported Crude Petroleum From Selected Countries*

	Algeria	Canada	Indonesia	Iran	Libya	Nigeria	Saudi Arabia	U.A. Emirates	Venezuela
				Do	ollars per ba	arrel	,		
AVERAGE	12.72	12.72	13.79	12.21	12.35	12.62	12.30	12.87	11.65
January	13.56	12.95	13.89	13.01	13.52	13.61	13.18	13.50	11.60
					13.45	13.52	13.21	13.36	12.09
						13.62	13.18	13.37	11.71
						13.60	13.11	13.18	11.95
May					13.59	13.62	13.05	13.39	11.61
June					13.38	13.78	13.14	13.09	11.55
July					13.53	13.81	13.02	13.45	11.44
August	13.91				13.51	13.87	13.03	13.23	11.77
September	14.03	13.70	13.80	12.78	13.72	13.82	12.87	13.44	11.98
October	13.81	13.71	13.84	12.73	13.83	13.99	12.87	13.22	11.84
November	13.84	13.59	13.77	12.58	13.73	13.95	13.01	13.18	12.01
December	14.14	13.52	13.75	12.69	13.79	14.11	13.02	13.29	12.19
AVERAGE	13.81	13.57	13.82	12.82	13.58	13.80	13.04	13.30	11.80
January	14.80	13.92	14.42	13.16	14.64	14.97	13.22	13.56	13.29
February	15.18	13.74	14.57	13.56	15.12	15.12	13.32	13.46	13.76
March	15.08	14.34	14.64	13.94	14.88	15.13	13.50	13.80	13.41
April	15.21	14.02	14.70	13.95	15.12				13.19
May	15.20	14.94	14.59						13.10
	15.34	14.49							13.06
July	15.29	13.91							13.02
	15.24	14.24							12.82
	15.29	14.14							13.08
October									13.16
November									13.11
December	15.25	14.27	14.58	13.95	14.81	15.21	13.99	14.48	12.99
January	15.01	14.37	14.60	13.91	14.63	14.88	13.93	14.40	13.00
	14.91	14.31	14.53	13.75	14.85	14.90	13.96	14.07	12.93
March	14.74	13.56	14.56	14.06					13.22
April	14.91								12.89
	14.70								12.49
June	14.80	15.07	14.58	13.92	14.45	14.61	13.86	14.48	12.72
	January February March April May June July August September October November December AVERAGE January February March April May June July August September October November December January February March April May June July August September October November December	AVERAGE 12.72 January 13.56 February 13.57 March 13.83 April 13.73 May 13.47 June 13.75 July 13.77 August 13.91 September 14.03 October 13.81 November 13.84 December 14.14 AVERAGE 13.81 January 14.80 February 15.18 March 15.08 April 15.21 May 15.20 June 15.34 July 15.29 August 15.24 September 15.25 January 15.05 December 15.05 December 15.25 January 15.01 February 14.91 March 14.74 April 14.91 May 14.70	AVERAGE 12.72 12.72 January 13.56 12.95 February 13.57 13.24 March 13.83 13.30 April 13.73 13.61 May 13.47 13.62 June 13.75 14.19 July 13.77 13.79 August 13.91 13.78 September 14.03 13.70 October 13.81 13.71 November 13.84 13.59 December 14.14 13.52 AVERAGE 13.81 13.57 January 14.80 13.92 February 15.18 13.74 March 15.08 14.34 April 15.21 14.02 May 15.20 14.94 July 15.29 13.91 August 15.24 14.49 July 15.29 13.91 August 15.24 14.24 September 15.29 14.14 October 15.41 14.00 November 15.05 14.52 December 15.25 14.27 January 15.01 14.37 February 14.91 14.31 March 14.74 13.56 April 14.91 13.50 May 14.70 14.39	AVERAGE 12.72 12.72 13.79 January 13.56 12.95 13.89 February 13.57 13.24 13.94 March 13.83 13.30 13.94 April 13.73 13.61 13.78 May 13.47 13.62 13.84 June 13.75 14.19 13.84 July 13.77 13.79 13.80 August 13.91 13.78 13.78 September 14.03 13.70 13.80 October 13.81 13.71 13.84 November 13.84 13.59 13.77 December 14.14 13.52 13.75 AVERAGE 13.81 13.57 13.82 January 14.80 13.92 14.42 February 15.18 13.74 14.57 March 15.08 14.34 14.64 April 15.21 14.02 14.70 May 15.20 14.94 14.59 June 15.34 14.49 14.63 July 15.29 13.91 14.75 August 15.24 14.24 14.65 September 15.29 14.14 14.62 October 15.41 14.00 14.67 November 15.05 14.52 14.73 December 15.05 14.52 14.73 December 15.25 14.27 14.58 January 15.01 14.37 14.60 February 14.91 14.31 14.53 March 14.74 13.56 14.56 April 14.91 13.50 14.61 May 14.70 14.39 14.50	AVERAGE 12.72 12.72 13.79 12.21 January 13.56 12.95 13.89 13.01 February 13.57 13.24 13.94 12.87 March 13.83 13.30 13.94 12.77 April 13.73 13.61 13.78 12.91 May 13.47 13.62 13.84 12.82 June 13.75 14.19 13.84 13.00 July 13.77 13.79 13.80 12.76 August 13.91 13.78 13.78 13.09 September 14.03 13.70 13.80 12.78 October 13.81 13.71 13.84 12.73 November 13.84 13.59 13.77 12.58 December 14.14 13.52 13.75 12.69 AVERAGE 13.81 13.57 13.82 12.82 January 14.80 13.92 14.42 13.16 February 15.18 13.74 14.57 13.56 March 15.08 14.34 14.64 13.94 April 15.21 14.02 14.70 13.95 May 15.20 14.94 14.59 13.94 June 15.34 14.49 14.63 13.81 July 15.29 13.91 14.75 13.84 August 15.24 14.24 14.65 13.99 September 15.25 14.14 14.62 13.77 October 15.41 14.00 14.67 13.83 November 15.29 14.14 14.62 13.77 October 15.41 14.00 14.67 13.83 November 15.05 14.52 14.73 13.88 December 15.25 14.27 14.58 13.95 January 15.01 14.37 14.60 13.91 February 14.91 14.31 14.53 13.75 March 14.74 13.56 14.56 14.06 April 14.91 13.50 14.61 13.90 May 14.70 14.39 14.50 13.94	AVERAGE 12.72 12.72 13.79 12.21 12.35 January 13.56 12.95 13.89 13.01 13.52 February 13.57 13.24 13.94 12.87 13.45 March 13.83 13.30 13.94 12.77 13.36 April 13.73 13.61 13.78 12.91 13.38 May 13.47 13.62 13.84 12.82 13.59 June 13.75 14.19 13.84 13.00 13.38 July 13.77 13.79 13.80 12.76 13.53 August 13.91 13.78 13.78 13.09 13.51 September 14.03 13.70 13.80 12.78 13.72 October 13.81 13.71 13.84 12.73 13.83 November 13.84 13.59 13.77 12.58 13.73 December 14.14 13.52 13.75 12.69 13.79 AVERAGE 13.81 13.57 13.82 12.82 13.58 January 14.80 13.92 14.42 13.16 14.64 February 15.18 13.74 14.57 13.56 15.12 March 15.08 14.34 14.64 13.94 14.88 April 15.21 14.02 14.70 13.95 15.12 May 15.20 14.94 14.59 13.94 14.91 June 15.34 14.49 14.63 13.81 14.92 July 15.29 13.91 14.75 13.84 14.88 August 15.24 14.24 14.65 13.99 14.70 October 15.41 14.00 14.67 13.83 14.81 November 15.05 14.52 14.73 13.88 14.73 December 15.25 14.27 14.58 13.75 14.65 February 15.14 14.00 14.67 13.83 14.81 November 15.25 14.27 14.58 13.95 14.81 January 15.01 14.37 14.60 13.91 14.63 February 15.01 14.37 14.60 13.91 14.63 February 14.91 14.31 14.53 13.75 14.85 March 14.74 13.56 14.56 14.06 14.62 April 14.91 13.50 14.61 13.90 14.43 May 14.70 14.39 14.50 13.94 14.56	AVERAGE 12.72 12.72 13.79 12.21 12.35 12.62 January 13.56 12.95 13.89 13.01 13.52 13.61 February 13.57 13.24 13.94 12.87 13.45 13.52 March 13.83 13.30 13.94 12.77 13.36 13.62 April 13.73 13.61 13.78 12.91 13.38 13.60 May 13.47 13.62 13.84 12.82 13.59 13.62 June 13.75 14.19 13.84 13.00 13.38 13.78 July 13.77 13.79 13.80 12.76 13.53 13.81 August 13.91 13.78 13.78 13.09 13.51 13.87 September 14.03 13.70 13.80 12.78 13.72 13.82 October 13.81 13.71 13.84 12.73 13.83 13.99 November 13.84 13.59 13.77 12.58 13.73 13.95 December 14.14 13.52 13.75 12.69 13.79 14.11 AVERAGE 13.81 13.57 13.82 12.82 13.58 13.80 January 14.80 13.92 14.42 13.16 14.64 14.97 February 15.18 13.74 14.57 13.56 15.12 15.12 March 15.08 14.34 14.64 13.94 14.88 15.13 April 15.21 14.02 14.70 13.95 15.12 15.37 May 15.20 14.94 14.59 13.94 14.91 15.40 June 15.34 14.49 14.63 13.81 14.92 15.37 July 15.29 13.91 14.75 13.88 14.73 15.25 September 15.29 14.14 14.62 13.77 14.99 15.34 October 15.41 14.00 14.67 13.83 14.81 February 15.01 14.37 14.60 13.91 14.63 14.88 February 15.01 14.37 14.60 13.91 14.63 14.88 February 14.91 14.31 14.53 13.75 14.85 14.90 March 14.74 13.56 14.56 14.06 14.62 14.89 April 14.91 13.50 14.61 13.94 14.63 14.88 February 14.91 13.50 14.61 13.94 14.63 14.88 February 14.91 13.50 14.61 13.90 14.43 14.63 May 14.70 14.39 14.55 13.94 14.65 14.90 March 14.74 13.56 14.56 14.06 14.62 14.89 April 14.91 13.50 14.61 13.94 14.63 14.88	AVERAGE 12.72 12.75 13.89 13.01 13.52 13.61 13.18 February 13.56 13.61 13.78 12.91 13.38 13.60 13.11 May 13.47 13.62 13.84 12.87 13.45 13.59 13.61 13.78 13.94 12.87 13.45 13.62 13.05 13.01 13.79 13.62 13.05 13.06 13.19 13.79 13.89 13.01 13.52 13.61 13.18 April 13.73 13.61 13.78 12.91 13.38 13.60 13.11 May 13.47 13.62 13.84 12.82 13.59 13.62 13.05 13.09 13.75 14.19 13.84 13.00 13.38 13.78 13.14 13.19 13.77 13.79 13.80 12.76 13.53 13.81 13.02 August 13.91 13.78 13.78 13.09 13.51 13.87 13.03 September 14.03 13.70 13.80 12.76 13.53 13.81 13.02 August 13.91 13.78 13.84 12.73 13.83 13.99 12.87 October 13.81 13.71 13.84 12.73 13.83 13.99 12.87 November 13.84 13.59 13.77 12.58 13.73 13.95 13.01 December 14.14 13.52 13.75 12.69 13.79 14.11 13.02 AVERAGE 13.81 13.74 14.57 13.56 15.12 13.29 February 15.18 13.74 14.57 13.56 15.12 15.12 13.32 May 15.20 14.94 14.59 13.94 14.88 15.13 13.50 April 15.21 14.02 14.70 13.95 15.12 15.37 13.41 May 15.20 14.94 14.59 13.94 14.91 15.40 13.49 July 15.29 13.91 14.75 13.84 14.88 15.39 13.64 August 15.24 14.24 14.65 13.99 14.70 15.25 13.79 January 15.01 14.37 14.60 13.91 14.63 13.81 15.31 13.85 November 15.05 14.52 14.73 13.88 14.73 15.23 13.99 15.90 Pocember 15.41 14.00 14.67 13.83 14.81 15.31 13.85 November 15.05 14.52 14.73 13.88 14.73 15.23 13.99 February 15.14 14.00 14.67 13.83 14.81 15.31 13.85 November 15.05 14.52 14.73 13.88 14.73 15.23 13.99 February 15.14 14.00 14.67 13.83 14.81 15.21 13.99 February 15.01 14.37 14.60 13.91 14.63 13.85 14.90 13.99 February 15.01 14.37 14.60 13.91 14.63 13.85 14.90 13.99 February 15.01 14.37 14.60 13.91 14.63 13.85 14.90 13.99 February 15.01 14.37 14.60 13.91 14.63 13.85 14.90 13.99 February 14.91 14.31 14.63 13.95 14.81 15.21 13.99 February 14.91 14.31 14.63 13.95 14.81 15.21 13.99 February 14.91 13.50 14.61 13.90 14.43 14.63 13.86 14.70 14.99 14.90 14.65 13.99 14.70 14.43 14.63 13.86 14.66 14.66 14.62 14.89 14.07 14.91 14.50 14.60 14.67 13.86 14.66 14.62 14.89 14.07 14.99 14.50 14.40 14.65 13.99 14.60 14.63 13.86 14.65 14.06 14.62 14.89 14.07 14.	AVERAGE 12.72 12.72 13.79 12.21 12.35 12.62 12.30 12.87 January 13.56 12.95 13.89 13.01 13.52 13.61 13.18 13.50 February 13.57 13.24 13.94 12.87 13.45 13.52 13.21 13.36 March 13.83 13.30 13.94 12.77 13.36 13.11 13.38 May 13.47 13.62 13.84 12.95 13.69 13.11 13.18 May 13.47 13.62 13.84 12.95 13.69 13.11 13.18 June 13.75 14.19 13.84 12.89 13.59 13.60 13.11 13.18 June 13.77 13.79 13.84 13.00 13.38 13.78 13.14 13.09 June 13.75 14.19 13.84 13.00 13.38 13.78 13.02 13.45 August 14.03 13.70

^{*}See Explanatory Note 16. R=Revised data.

Source: FEA Form F701-M-O "Transfer Pricing Report."

		Entitlement Drice* (Dollars)	National Old Oil (or Domestic Crude Oil) Supply Ratio*	Crude Oil Entitlement Benefit* (Dollars)
1976	January	8.09	.309	2.50
	February	7.85	.352	2.76
	March	7.89	.358	2.82
	April	7.85	.356	2.79
	May	7.82	.356	2.78
	June	7.91	.328	2.59
	July	7.80	.314	2.45
	August	8.02	.319	2.56
	September	7.80	.296	2.31
	October	7.84	.293	2.30
	November	7.90	.273	2.16
	December	7.97	.263	2.10
1977	January	8.30	.266	2.21
	February	8.53	.267	2.28
	March	8.71	.273	2.38
	April	8.69	.285	2.48
	May	8.77	.280	2.46
	June	8.65	.273	2.36
	July	8.68	.258	2.24
	August	8.75	.266	2.33
	September	8.75	.250	2.19
	October	8.78	.250	2.20
	November	8.61	.239	2.06
	December	8.65	.233	2.02
1978	January	8.61	.240	2.07
	February	8.48	.230	1.95
	March	8.47	.225	1.91
	April	8.35	.218	1.82
	May	8.26	.197	1.63
	June	8.19	.191	1.56

*See Definitions.
Source: FEA-P102-M-1 "Domestic Crude Oil Entitlements Program Refiners Monthly Report".

Unrecouped Costs for Refined Products for 30 Largest Refiners¹

		Distilla	Moto ite² Gasol		Othe	er lucts Total
				Millions of do	llars	
1975	January	254	431	_	672	1,357
	February	300	418	_	790	1,508
	March	282	452		966	1,700
	April	302	485	<u>-</u>	807	1,594
	May	292	370	-	. 771	1,433
	June	284	266	-	. 785	1,334
	July	233	219	_	624	1,075
•	August	280	344	-	583	1,208
	September	347	335	_	661	1,342
	October	338	245	_	673	1,255
	November	426	275	-	796	1,497
	December	446	211	_	826	1,483
1976	January	336	242	131	515	1,224
	February	279	336	145	456	1,216
	March	263	316	163	. 456	1,198
	April	237	398	180	524	1,339
	May	264	632	161	446	1,503
	June	=	628	135	349	1,112
	July	_	587	129	384	1,100
	August	_	679	125	352	1,156
	September	_	619	134	340	1,093
	October	_	733	151	372	1,256
	November	_	796	168	368	1,332
	December	·	723	139	317	1,179
1977	January	_	901	166	325	1,392
	February	-	1,038	187	303	1,528
	March		956	180	287	1,423
	April	_	1,029	194	343	1,566
	May	_	967 957	224 234	351 344	1,542 1,535
	June		869	210	391	1,535
	July	-	764	279	455	1,498
	August	-	784 784	186	500	1,438
	September October	_	879	248	511	1,638
	November	_	904	218	538	1,660
	December		818	185	470	1,473
	December		010	103		,
1978	January		1,055	191	420	1,666
	February		1,265	198	435	1,898
	March		1,065	175	378	1,618
	April		1,013	170	400	1,583
	May		R849	R186	R500	R1,535
	June⁴		716	180	567	1,463

R=Revised data.

¹Beginning with February 1977, data for only 29 refiners are included in this table due to the merger between Skelly Oil Company and Getty Oil Company.

²Includes No. 2 heating oil and No. 2 diesel fuel only. After May 1976, reporting of the distillate bank is no longer required due to decontrol of middle distillates.

³Prior to January 1976 refiners were not required to maintain separate banks for aviation jet fuel.

⁴Preliminary.

Source: FEA Form P110-M-1 "Refiners' Monthly Cost Allocation Report."

Motor Gasoline

Leaded Regular Gasoline—Full Serve

Leaded Regular Gasoline—Self Serve

		Average Retail Dealer Selling Price	Average Retail Dealer Margin	Average Retail Dealer Selling Price	Average Retail Dealer Margin
		Cents per gailo	on, including tax	Cents per gallo	n, including tax
1975	January	52.4	9.0	NA	NA
	February	52.5	9.0	NA	NA
	March	52.6	8.8	NA	NA
	April	53.5	8.6	NA	NA
	May	54.3	8.3	NA	NA
	June	55.6	8.1	NA	NA
	July	58.7	8.4	NA NA	NA
	August	59.2	8.4	NA NA	NA NA
	September	59.3	8.2	NA NA	NA NA
	October	58.9	8.2	NA NA	NA
	November	58.4	8.2	55.4	5.5
	December	58.0	8.1	54.9	5.3 5.3
			0.1	, 34.3	5.5
	AVERAGE	56.2	8.4	55.1	5.4
1976	January	57.7	8.1	54.7	5.4
	February	57.1	8.3	53.8	5.4
	March	56.6	8.3	53.2	5.3
	April	56.6	8.0	53.2 ·	4.9
	May	57.4	7.4	54.4	4.5
	June	59.0	7.4	56.3	4.8
	July	59.6	7.4	56.6	4.6
	August	60.1	7.4	56.7	4.4
	September	60.2	7.6	56.5	4.3
	October	60.2	7.6	56.5	4.4
	November	60.0	7.8	56.4	4.5
	December	59.9	7.9	56.1	4.5
	AVERAGE	58.7	7.8	55.4	4.8
1977	January	59.9	7.9	56.2	4.5
	February	60.7	7.9	57.1	4.4
	March	61.3	7.8	57.7	4.4
	April	62.2	8.1	58.4	4.4
	May	62.9	7.9	58.9	4.2
	June	63.4	8.1	59.3	4.3
	July	63.4	8.3	59.2	4.4
	August	63.4	8.4	58.8	4.2
	September	63.3	8.6	58.5	4.2
	October	63.2	8.8	58.2	4.2
	November	63.1	8.7	58.1	4.0
	December	63.3	9.0	58.2	4.2
	AVERAGE	62.6	8.3	58.2	4.3
1978	January	61.7	NA	57.2	NA
	February	61.6	NA	57.1	NA
	March	61.7	NA	57.0	NA
	April	61.9	NA	57.2	NA
	May*	62.5	NA	58.2	NA
	June	63.4*	NA	59.1	NA

NA = Not available.

Sources: Lundberg Survey, Inc. for 1975 through 1977; EIA-8, "Retail Motor Fuels Service Station Survey" for January 1978 forward.

^{*}Preliminary data.

Motor Gasoline (Continued)

Unleaded Regular Gasoline—Full Serve

Unleaded Regular Gasoline—Self Serve

	-	Average Retail Dealer Selling Price	Average Retail Dealer Margin	Average Retail Dealer Selling Price	Average Retail Dealer Margin
		Cents per gall	on, including tax	Cents per gallo	on, including tax
1975	January	NA	NA	NA	NA
	February	56.1	NA	NA	NA
	March	56.2	NA	NA	NA
	April	57.1	NA	NA	NA
	May	57.9	NA	NA	NA
	June	58.8	NA	NA	NA
	July	61.5	NA	NA	NA
		62.0	NA	NA	NA
	August	62.1	NA	NA	NA
	September	62.1	NA NA	NA	NA
	October		NA NA	NA	NA
	November	62.0		NA	NA
	December	61.4	NA	NA	NA .
	AVERAGE	59.8	NA	NA	NA
1976	January	61.2	NA	NA	NA
	February	60.6	NA	NA	NA
	March	60.1	NA	NA	NA
	April	60.4	NA	NA	NA
	May	61.1	NA	NA	NA
	June	62.9	NA	NA	NA
		63.2	NA	NA	NA
	July	63.9	NA	NA	NA
	August		NA	NA	NA
	September	64.0	NA	NA	NA
	October	64.0		NA NA	NA
	November	63.9	NA	NA .	NA
	December	63.9	NA ,	INA	
	AVERAGE	62.5	NA	NA	NA
1977	January	64.0	NA	NA	NA
	February	65.0	NA	NA	NA
	March	65.4	NA	NA	NA
	April	66.1	NA	NA	NA
	May	66.7	NA	. NA	NA
	June	67.2	NA	NA	NA
	July	67.3	NA	NA	NA
	August	67.0	9.5	63.7	6.5
	September	67.0	9.5	63.7	6.5
	October	67.0	9.7	63.6	6.6
	November	67.0	9.6	63.4	6.4
	December	67.2	9.9	63.6	6.7
	AVERAGE	66.4	9.6	63.6	6.5
1978	January	65.8	NA	61.6	NA
1370	February	65.7	NA	61.8	NA
	March	65.8	NA	61.8	NA
	April	66.1	NA	62.0	NA
	May	66.9	· NA	62.9	NA
	•		NA NA	63.9	NA
	June	67.9	INA	03.3	11/4

Sources: Lundberg Survey, Inc. for 1975 through 1977; EIA-8, "Retail Motor Fuels Service Station Survey" for January 1978 forwa

^{*}Preliminary data.

NA = Not available.

R = Revised data.

Leaded Premium Gasoline—Full Serve

Leaded Premium Gasoline —Self Serve

		Average	A	Average	•
		Retail	Average	Retail	Average
		Dealer	Retail	Dealer	Retail
		Selling	Dealer	Selling	Dealer
		Price	Margin	Price	Margin
		Cents per gallo	on, including tax	Cents per gallo	n, including tax
1975	January	57.1	NA	NA	NA
	February	57.3	NA	NA	NA
	March	57.5	NA	NA	NA
	April	58.2	NA	NA	NA -
	May	59.0	'NA	NA	NA
	June	60.3	NA	NA	NA
	July	63.1	NA	NA	NA
	August	63.6	NA	NA	NA
	September	63.8	NA	NA NA	NA
	October	63.4	NA	NA NA	NA
	November	63.2	NA	NA NA	NA
	December	62.9	NA	NA NA	NA
		02.0	140	NA.	NA .
	AVERAGE	60.9	NA	NA	NA
1976	January	62.7	NA	59.6	NA
	February	62.1	NA	58.9	NA
	March	61.6	NA	58.4	NA
	April	61.6	NA	58.5	NA
	May	62.4	NA	59.6	NA
	June	63.9	NA	61.4	NA
	July	64.6	NA	61.8	NA
	August	65.2	NA	62.0	NA
	September	65.3	NA	61.9	NA
	October	65.2	NA	61.9	NA
	November	65.2	NA	61.9	NA
	December	65.0	NA	61.6	NA
	AVERAGE	63.8	NA	60.7	NA
1977	January	65.2	NA	61.7	NA
	February	66.1	NA	62.7	NA
	March	66.8	NA	63.3	NA
	April	67.6	NA	64.1	NA
	May	68.4	NA	64.8	NA
	June	68.9	NA	65.2	NA
	July	68.9	NA	65.2	NA
	August	68.9	9.9	65.8	7.2
	September	68.9	10.0	65.8	7.3
	October	68.9	10.1	65.7	7.3 7.3
	November	68.9	10.1	65.6	7.3 7.3
	December	69.1	10.2	65.8	7.3 7.4
	AVERAGE	68.1	10.1	64.7	7.3
1070	lamam.	67.7	NI A		
1978	January Enhance	67.7	NA NA	63.5	NA
	February	67.7	NA	64.0	NA
	March	68.0	NA	63.9	NA
	April May	68.3	NA	64.3	NA
	May	69.0	NA	65.3	NA
	June	69.9	NA	66.4	NA

^{*}Preliminary data.

NA = Not available.

R=Revised data.

Sources: Lundberg Survey, Inc. for 1975 through 1977; EIA-8, "Retail Motor Fuels Service Station Survey" for January 1978 forward.

Motor Gasoline (Continued)

Average Retail Dealer Selling Prices for Major and Nonmajor Retail Dealers—May and June 1978

Leaded Regular Gasoline—Full Serve

Unleaded Regular Gasoline—Full Serve

Cents per gallon, including tax

Selling Price

Cents per gallon, including tax

Selling Price

	Selling Price		. '	Selling Price	
	May	June*		Мау	June*
Maior	64.2	65.0	Major	68.1	69.1
Nonmajor	59.8	60.6	Nonmajor	R63.6	64.4
National Average	62.5	63.4	National Average	· R67.0	67.9

Leaded Regular Gasoline—Self Serve

Unleaded Regular Gasoline—Self Serve

	00	gcc			3
	May	June*		May	June*
Major	59.3	60.4	Major	64.5	65.6
Nonmajor	57.0	57.8	Nonmajor	R60.2	61.4
National Average	58.2	59.1	National Average	62.9	63.9

Leaded Premium Gasoline-Full Serve

Unleaded Premium Gasoline—Full Serve

	Selling Price			Selling Price	
	May	June*		May	June
Major	70.2	71.2	Major	**	**
Nonmajor	65.8	66.7	Nonmajor	**	**
National Average	69.0	69.9	National Average	**	**

Leaded Premium Gasoline—Self Serve

Unleaded Premium Gasoline—Self Serve

	Selling Price				Selling Price		g Price
	Мау	June*				May	June
Major	R67.4	68.6	٠.	Major	•	**	**
Nonmajor	62.5	63.4		Nonmajor		**	**
National Average	R65.4	66.4		National Average		**	**

Source: EIA-8 "Retail Motor Fuels Service Station Survey."

^{*}Preliminary data.

^{**}Insufficient data.

R = Revised data.

Average Regional Retail Dealer Selling Prices for Full Serve Leaded Regular and Unleaded Regular Gasoline—May and June 1978

DOE Region**	Leaded	l Regular	Unleade	Unleaded Regular	
	Cents per gallon, including tax		Cents per gallon including tax		
	May	June*	May	June*	
1	61.8	63.0	R65.9	67.2	
2	61.4	61.7	R65.9	66.5	
3	62.6	63.2	R66.4	67.0	
4	62.1	63.4	66.9	68.2	
5	R62.2	62.9	66.6	67.1	
6	R61.1	61.7	64.8	65.6	
7	R61.7	62.6	65.7	66.6	
8	65.0	65.8	68.3	69.2	
9	R67.2	68.6	R71.7	72.8	
10	65.6	66.4	R69.4	70.4	
National Average	62.5	63.4	R67.0	67.9	

Average Regional Retail Dealer Selling Prices for Self Serve Leaded Regular and Unleaded Regular Gasoline—May and June 1978

DOE Region**	Leaded	i Regular	Unleaded	Regular	
	Cents per gallon, including tax			Cents per gallon, including tax	
	May	June*	May	June*	
1	58. 3	59.2	R63.2	64.0	
2	R60.7	61.7	R66.5	67.2	
3	R58.1	58.8	R63.8	64.4	
4	57.5	58.6	62.1	63.3	
5	58.2	59.0	R62.3	63.5	
6	R55.0	56.2	59.7	60.6	
7	R58.0	58.6	R62.0	62.6	
8	R58.4	59.1	R61.4	62.3	
9	R62.1	63.2	R66.5	68.2	
10	62.9	64.0	66.3	67.9	
National Average	58.2	59.1	62.9	63.9	

Average Regional Retail Dealer Buying Prices for Leaded Regular and Unleaded Regular Gasoline—May and June 1978

DOE Region**	Leade	l Regular	Unlead	ed Regular	
•	Cents per gallon, including tax			Cents per gallon, including tax	
	May	June*	May	June*	
1	55.7	56.7	58.7	59.1	
2	R54.6	55.3	57.5	58.5	
3	R55.1	55.8	57.9	58.8	
4	54.0	54.8	R57.2	58.1	
5	54.6	55.5	57.8	58.6	
6 .	51 .3	51.9	R54.3	54.8	
7	R53.7	54.4	56.8	57.6	
8	54.2	55.0	R57.2	58.2	
9	R56.6	58.1	R59.0	60.5	
10	R57.3	58.2	R60.0	61.0	
National Average	54.4	55.2	R57.5	58.4	

^{*}Preliminary data.

^{**}DOE regions are defined in Explanatory Note 17.

R = Revised data.

Source: EIA-8 "Retail Motor Fuels Service Station Survey."

Motor Gasoline (Continued)

Average Refiner Retail Gasoline Selling Prices*

		Regular	Premium	Unleaded
		Cents p	per gallon, including tax	
1975	July	55.7	NA	57.4
1373	August	55.9	59.8	58.0
	September	55.6	59.5	57.6
	October	55.0	59.1	57.1
	November	54.1	58.5	56.3
	December	53.7	58.1	56.0
1976	January	53.5	57.9	55.8
	February	53.4	57.8	55.9
	March	52.3	56.6	54.6
	April	52.7	56.8	55.0
	Mav	54.1	58.2	56.3
	June	55.7	60.1	57.9
	July	55.9	60.3	58.4
	August	55.7	60.3	58.5
	September	55.6	60.1	58.1
•	October	55.4	59.9	58.1
	November	55.2	59.8	57.9
	December	55.0	59.6	57.8
1977	January	54.9	59.5	57.7
	February	55.5	60.2	58.9
	March	56.0	61.0	59.5
	April	57.1	61.9	60.6
	May	57.7	62.7	61.4
	June	58.0	62.7	61.8
	July	58.2	63.2	61.8
	August	57.9	63.1	61.8
	September	57.6	62.9	61.5
	October	57.2	62.7	61.2
	November	57.0	62.6	61.1
	December	56.9	62.7	61.0
1978	January	56.8	62.6	60.9
	February	56.5	62.4	60.7
	March	56.5	62.5	60.7
	April	56.8	R62.8	61.0
	May**	57.4	63.6	61.8

NA = Not available.

^{*}Retail refers to the price at which refiner-owned and operated retail stations sell gasoline to the consumer.
**Preliminary data.

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

Aviation Fuels

AVIATION FUELS (Cents per gallon)

		Aviation Ga	soline	Naphtha-Type*	Kerosene-Type	
		Wholesale	Retail	Retail	Wholesale	Retail
1975	July	40.6	40.6	31.4	29.8	29.2
	August	41.3	42.1	30.8	32.1	29.5
	September	41.2	39.9	30.3	31.5	29.6
	October	41.1	41.2	30.2	31.7	30.0
	November	39.7	42.1	30.6	31.6	30.2
	December	40.9	40.9	30.7	31.9	30.5
1976	January	41.4	41.2	31.0	30.6	31.3
	February	41.2	42.0	31.1	31.1	31.2
	March	41.1	41.9	30.9	31.2	30.7
	April	41.2	42.5	30.5	31.9	30.5
	May	42.1	43.1	30.6	33.0	30.2
	June	42.6	42.3	31.5	32.1	30.3
	July	43.6	44.2	31.3	32.9	30.8
	August	43.7	44.1	31.7	32.1	31.1
	September	43.6	44.7	32.1	32.5	31.4
	October	43.6	43.8	32.1	32.5	31.9
	November	43.4	43.9	32.8	33.4	32.4
	December	43.5	43.7	32.9	34.7	32.2
1977	January	43.4	44.1	33.4	34.6	33.2
	February	. 44.7	45.0	34.0	37.1	34.1
	March	45.0	45.7	34.5	35.9	34.6
	April	46.0	47.2	34.3	35.9	34.9
	May	46.6	47.8	34.3	36.3	35.1
	June	46.7	47.6	35.1	36.8	35.7
	July	47.0	48.7	35.6	37.1	35.8
	August	47.9	50.1	35.5	36.6	36.0
	September	47.9	49.1	35.6	37.1	37.0
	October	48.1	49.0	35.7	37.3	37.3
	November	48.3	47.8	35.8	37. 9	37.5
	December	47.8	48.1	36.2	37.2	37.8
1978	January	47.8	49.1	36.9	37.9	38.5
	February	48.3	48.4	36.5	38.3	38.2
	March	49.1	49.4	36.9	37.8	38.4
	April	49.5	51.5	36.8	38.1	38.5
	May**	50.1	50.0	37.3	38.3	38.6
	June**	50.4	52.8	37.2	38.9	38.9

Note: Wholesale refers to the price of aviation fuel sold to refiners and resellers, including bulk plants, branded and unbranded jobbers, and aviation fuel distributors. Retail refers to the price of aviation fuel sold to ultimate consumers, including commercial airline and military accounts.

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

^{*}Nearly all naphtha-type fuels are sold directly to the Defense Fuel Supply Center. Consequently, wholesale prices are not applicable.

^{**}Preliminary data.

Heating Oil

Residential Heating Oil Prices*

		Average Selling Price**	Average Purchase Price**	Average Distributor Margin**
		Cents	per gallon	
1974	AVERAGE	34.7	26.9	
1975	January February March April May June July August September October November December	38.4 39.3 39.4 40.1	29.1 28.7 28.4 29.3 30.0 30.3 30.6 31.2 31.0 31.8 32.1 32.4	8.3 8.2 6.8 6.7 6.8 6.6 6.8 7.4 7.5 7.3
	AVERAGE	37.7	31.2	
1976	January February March April May June July August September October November December	40.2 40.2 39.4 39.0 39.0 39.3 39.3 39.8 40.2 40.7 41.9 43.0	32.0 32.0 31.5 31.3 31.4 31.8 32.3 32.2 32.6 33.1 33.4 34.5	8.8 8.8 9.2 9.1 8.6 8.6 8.0 8.5 8.7 8.6 9.1 9.2
1977	January February March April May June July August September October November December	44.4 45.3 45.8 45.9 45.7 45.7 45.8 46.0 46.2 46.7 47.6 47.9	35.8 36.7 37.0 37.1 37.1 37.2 37.3 37.4 37.5 37.3 37.2	9.3 9.4 9.5 9.6 9.5 9.3 9.3 9.2 9.4 9.8 10.2 10.4
1978	January February March April May June***	48.5 48.6 48.6 48.6 48.3 48.2	38.1 37.8 37.6 37.6 37.6 37.7	10.5 11.0 11.1 11.1 11.0 10.7

Sources: 1974 through December 1975—Form CLC-92 "No. 2 Heating Oil Monthly Price Adjustment Report;" January 1976 forward—FEA Form P112-M-1 "No. 2 Heating Oil Supply/Price Monitoring Report."

^{*}See Explanatory Note 18.

**Average selling prices, purchase prices, and dealer margins represent sales for residential heating oil only.

***Preliminary data.

NA = Not available.

Heating Oil (Continued)

Refiners' Average Selling Prices to Resellers and Retailers

1976	January	31.1
	February	30.9
	March	30.4
	April	30.1
	Mav	30.3
	June	30.5
	July	30.9
	August	31.0
	September	31.2
	October	31.7
	November	32.5
	December	33.6
	ANNUAL	31.4
1977	January	34.7
	February	35.4
	March	35.9
	April	35.8
	May	35.7
	June	35.7
	July	35.8
	August	35.7
	September	35.5
	October	36.0
	November	36.3
	December	36.6
	ANNUAL	35.7
1978	January	36.8
	February	36.4
	March	36.2
	April	36.0
	May	36.2
	June*	35.8

^{*}Preliminary.

Census Region

		New England	Mid- Atlantic	South Atlantic	East North Central	East South Central	West North Central	West South Central	Mountain	Pacific	
					Ce	nts per gall	on				
1976	January	41.5	40.0	39.6	38.3	37.8	38.2	35.0	41.2	41.6	
	February	41.4	40.3	39.4	38.0	37.7	38.3	34.4	41.0	42.1	
	March	41.5	39.8	39.2	37.0	36.7	37.6	34.5	40.4	41.9	
	April ·	41.2	40.0	38.9	37.1	35.9	37.3	34.6	40.3	40.8	
	May	41.1	39.7	38.2	37.1	35.6	37.3	34.0	40.4	42.1	
	June	40.9	41.1	39.1	37.7	37.2	37.3	34.3	40.3	42.8	
	July	40.7	39.8	39.1	37. 9	36.9	37.3	34.4	40.1	45.0	
	August	41.5	40.3	39.5	38.2	37.2	37.7	34.3	39.7	44.7	
	September	41.9	40.8	37.5	38.3	38.0	38.8	34.8	41.1	46.0	
	October	42.3	41.4	40.4	39.0	38.5	38.7	35.1	42.1	46.0	
	November	43.3	42.4	42.1	40.1	39.8	39.5	36.3	42.8	46.5	
	December	44.4	43.6	42.9	41.5	41.0	41.9	36.3	42.7	43.8	
1977	January	45.8	44.9	44.2	43.2	43.1	43.0	36.9	43.4	44.6	
	February	46.6	45.8	45.7	43.9	43.4	44.0	38.8	44.2	45.2	
	March	47.1	46.3	45.5	44.4	43.8	44.6	40.2	44.7	45.9	
	April	47.2	46.5	45.5	44.8	43.3	44.2	40.8	44.8	46.4	
	May	47.0	46.4	45.6	44.7	43.7	43.7	40.7	44.8	46.5	
	June	47.1	46.4	45.7	44.7	44.0	43.3	41.2	45.8	46.8	
	July	47.1	46.4	45.7	44.7	44.2	44.2	41.2	44.2	47.9	
	August	47.4	46.6	45.6	44.7	43.7	44.5	41.0	44.9	48.2	
	September	47.7	46.7	45.8	45.0	44.2	44.9	41.1	44.9	47.2	
	October	48.0	47.3	46.4	45.3	43.9	45.4	41.1	45.4	47.4	
						DOE Re	gion*				
		1	2	3	4	5	6	7	8	9	10
	November	48.5	48.1	47.0	46.1	45.7	NA	44.2	45.4	44.9	47.4
	December	48.9	48.6	47.5	46.6	46.1	NA	44.5	45.7	44.5	47.3
1978	January	49.4	49.2	48.1	47.5	46.4	NA	44.5	45.2	44.7	47.4
-	February	49.5	49.3	48.4	47.6	46.4	NA	45.2	45.5	45.6	47.5
	March	49.4	49.3	48.4	47.7	46.5	NA	44.4	45.0	47.0	47.8
	April	49.3	49.2	48.2	47.1	46.4	NA	44.6	45.0	45.1	47.6
	May	49.3	49.1	47.7	46.7	46.3	NA	44.7	45.0	44.4	47.4
	June*	49.2	49.1	47.8	46.8	46.0	NA	44.8	45.4	43.9	47.7

^{*}DOE regions are defined in Explanatory Note 17.
NA=Not available. Data for Region 6 are based on a sample of less than four reporting firms.

R=Revised data.

Note: Average regional distributor purchase prices for heating oil for the period January 1975 through February 1976 are published on page 70 of the October 1977 issue of the *Monthly Energy Review*.

Source: FEA Form P112-M-1 "No. 2 Heating Oil Supply/Price Monitoring Report."

^{**}Preliminary Data.

No. 1 Diesel Fuel Prices

INO. I DIE	Jei ruei riide	.5	
		Wholesale	Retail
		Cents per gallon,	excluding tax
1975	July	30.1	37.7
	August	30.8	38.2
	September	31.5	36.9
	October	33.1	35.4
	November	33.3	35.0
	December	34.2	35.5
1976	January	33.8	37.1
	February	33.6	35.3
	March	33. 9	34.8
	April	34.2	35.4
	May	34.5	37.5
	June	34.7	37.9
	July	35.0	38.1
	August	36.0	38.2
	September	35.3	37.7
	October	36.3	36.4
	November	35.7	37.0
	December	35.5	36.7
1977	January	37.1	37.8
	February	38.4	39.2
	March	39.0	39.6
	April	39.7	40.6
	May	39.5	41.7
	June	40.2	41.2
	July	40.3	41.3
	August	40.9	41.3
	September	39.0	41.1
	October	40.1	39.8
	November	40.9	40.4
	December	39.5	41.4
1978	January	. 39.8	41.3
	February	39.6	41.6
	March	39.6	41.0
	April	40.2	42.5
	May*	40.3	42.3
	June*	40.2	43.1

*Preliminary.
R=Revised data.
Note: Wholesale refers to the price of diesel fuel sold to other refiners and resellers, including branded jobbers, unbranded jobbers, and commercial accounts. Retail refers to the price at which company-owned and -operated retail dealers sell to consumers.

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

RESIDUAL FUEL OIL (Dollars per barrel)

NO. 5	NO. 6	BUNKER "C"
NO. 5	140. 0	DOMETER C

			10. 0												
				0.0 to 0. percent		0.31 to percent		Greater percent		Total	 I				
		Whole sale	- Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail	Whole- sale	Retail		
1975	July	10.19	11.28	11.57	12.86	10.90	12.05	10.25	10.59	10.66	11.70	7.88	10.54		
	August	10.19	11.04	11.53	13.22	10.85	12.34	9.72	10.53	10.49	11.89	8.76	10.43		
	September	10.58	11.07	11.75	12.94	10.63	11.65	9.87	10.52	10.48	11.52	8.93	10.29		
	October	10.15	11.12	11.50	12.98	10.37	12.09	9.75	10.38	10.30	11.69	8.88	10.31		
	November	10.90	11.27	12.21	12.96	10.33	12.03	9.90	10.34	10.47	11.68	9.01	10.43		
	December	10.83	11.64	11.89	12.87	10.37	11.83	9.65	10.06	10.24	11.42	9.07	10.15		
1976	January	11.08	11.63	12.13	12.39	10.62	11.61	9.57	10.23	10.53	11.35	8.75	10.35		
	February	10.55	11.57	12.42	12.78	10.87	11.84	9.70	10.35	10.73	11.52	8.53	10.27		
	March	10.41	11.89	12.36	12.81	11.05	11.80	9.56	10.21	10.74	11.43	8.59	10.35		
	April	10.21	11.58	11.44	12.34	10.86	11.77	9.53	10.28	10.38	11.43	8.66	10.12		
	May	9.87	11.49	11.71	11.87	10.80	11.40	9.47	9.89	10.11	10.95	8.75	10.65		
	June	9.91	11.23	11.71	12.24	10.33	11.36	9.73	10.03	10.12	11.04	8.57	10.10		
	July	10.06	11.70	11.73	12.12	10.22	11.36	9.83	10.04	10.25	11.04	9.23	10.34		
	August	9.78	11.48	11.85	12.29	10.45	11.46	9.61	10.22	10.20	11.20	8.93	9.98		
	September	10.36	11.37	11.85	12.50	10.33	11.55	10.04	10.28	10.35	11.30	9.22	10.05		
	October	10.40	11.86	11.96	12.85	11.08	11.99	10.00	10.73	10.75	11.82	9.57	10.81		
	November	11.04	12.04	12.41	13.15	11.57	12.21	10.40	10.99	11.16	11.95	10.31	10.88		
	December	11.49	12.64	13.18	13.29	11.80	12.76	11.04	11.48	11.87	12.44	9.95	11.24		
1977	January	12.00	13.20	14.06	14.34	12.79	13.68	11.51	12.32	12.45	13.32	10.34	11.89		
	February	12.28	13.63	14.00	14.60	12.91	14.06	12.04	12.74	12.69	13.71	10.24	12.00		
	March	12.15	13.76	14.00	14.58	13.47	14.51	11.62	12.70	12.68	13.84	9.97	11.74		
	April	11.62	13.26	12.88	14.63	13.05	14.10	11.27	12.50	12.04	13.61	10.14	11.75		
	May	11.54	12.69	13.56	14.48	11.90	13.73	11.05	12.15	11.64	13.42	9.97	11.41		
	June	11.25	13.10	13.12	14.28	11.88	13.27	11.10	11.93	11.72	13.02	10.30	11.39		
	July	11.24	12.67	13.31	14.38	11.73	13.12	11.02	12.06	11.62	13.01	10.91	11.44		
	August	11.61	12.75	13.32	14.15	11.83	13.08	11.89	12.01	12.06	13.00	11.08	11.58		
	September	11.70	12.84	13.35	14.33	11.79	13.11	11.78	12.19	12.03	12.94	11.20	11.72		
	October	11.52	13.14	13.38	14.30	11.69	13.15	11.71	12.33	12.10	13.15	10.98	11.87		
	November	11.29	13.16	12.85	14.24	11.66	12.93	11.44	12.15	11.76	12.96	10.42	11.66		
	December	11.64	13.53	12.87	13.95	11.38	12.60	10.77	11.95	11.28	12.70	11.27	11.37		
1978	January	11.45	13.36	12.72	14.19	11.56	12.70	10.71	12.00	11.33	12.79	9.73	11.15		
	February	11.75	13.35	12.20	14.05	11.64	12.42	10.58	11.75	11.25	12.53	9.66	10.84		
	March	11.41	13.62	12.73	13.99	11.94	12.75	10.48	11.70	11.36	12.63	8.95	10.47		
	April	R11.01	R13.44	12.72	14.51	12.26	R12.95	R10.84	11.85	11.57	12.87	R8.76	R10.28		
	May*	R11.23	13.66	R12.67	14.21	R12.01	R12.88	R10.79	11.74	11.70	12.79	R9.89	R11.05		
	June*	10.77	12.98	12.37	13.99	11.83	12.58	10.82	11.60	11.41	12.50	9.90	10.91		

*Preliminary.

R=Revised data.

Note: Wholesale refers to the price of residual fuel sold to other refiners and resellers, including bulk plants, branded and unbranded jobbers, and other residual dealers. Retail refers to the price at which residual fuel oil is sold to ultimate consumers such as utility, industrial, institutional, commercial, and residential accounts.

Source: FEA Form P302-M-1 "Petroleum Industry Monthly Report for Product Prices."

Propane and Butane

Wholesale Propane and Butane Prices*

		Propane	Butane
		Cents per s	gallon
1975	Jujy	17.9	17.5
	August	18.8	18.2
	September	19.8	19.7
	October	19.9	20.4
	November	20.2	20.5
	December	20.6	20.2
	AVERAGE (6 months)	19.7	19.4
1976	January	21.2	20.6
	February	21.0	21.6
	March	20.1	21.3
	April	19.4	20.9
	May	19.0	21.6
	June	19.5	21.4
	July	19.9	22.2
	August	20.2	22.3
	September	20.6	22.0
	October	20.9	22.7
	November	21.4	22.4
	December	22.1	23.6
	AVERAGE	20.6	21.9
1977	January	22.9	23.0
	February	24.0	24.3
	March	23.7	24.9
	April	23.6	24.2
	May	24.5	25.8
	June	24.5	25.6
	July	24.9	26.2
	August	25.5	26.1
	September	25.9	27.4
	October	26.8	26.3
	November	26.5	25.8
•	December	26.7	25.8
1978	January	27.0	25.9
	February	26.5	25.1
	March	25.6	24.9
	April	24.4	23.9
	'May	23.7	22.8
	June	23.3	22.9

^{*}Wholesale refers to the price at which refiners, resellers, retailers, and gas plants sell to one another, including sales to agricultural and industrial accounts. Excludes butane/propane mixtures.

Source: FEA Form P302-M-1, "Petroleum Industry Monthly Report for Product Prices."

Natural Gas

Natural Gas Prices Reported by Major Interstate Pipeline Companies

			PURCHASES		SALES				
		From Domestic Producers	From Canadian and Mexican Sources	Total Purchases	To Industrial Users*	To Resellers**	Total Sales		
			Cer	nts per thousa	nd cubic feet				
1975	January	30.4	104.0	35.8	67.8	70.9	71.2		
	February	29.5	105.9	35.2	70.1	74.0	74.3		
	March	33.5	102.5	38.8	70.4	77.7	77.8		
	April	32.8	102.8	38.3	71.1	82.3	81.9		
	May	34.7	100.6	39.8	71.1	83.7	82.8		
	June	35.3	98.9.	40.2	72.2	85.1	83.9		
	July	36.7	101.1	41.7	73.9	84.6	83.6		
	August	35.5	141.0	43.3	73.4	86.5	85.1		
	September	36.5	141.1	44.4	72.8	85.9	84.7		
	October	36.0	140.1	44.3	77.2 ·	85.9	85.4		
	November	36.5	162.5	46.7	77.8	86.7	86.4		
	December	35.8	161.8	45.9	80.7	87.6	87.5		
1976	January	38.3	164.0	48.7	88.2	90.1	90.6		
.0,0	February	39.7	165.3	50.1	88.2	93.8	94.1		
	March	39.4	164.5	49.9	86.8	92.0	92.2		
	April	40.5	164.3	51.5	89.0	96.5	96.4		
	May	42.2	165.0	52.7	87.4	99.2	98.5		
	June	43.7	166.6	54.0	89.8	99.4	98.8		
	July	43.8	168.4	53.8	94.6	102.7	102.0		
	August	56.4	167.7	65.7	98.2	105.3	104.6		
	September	68.6	183.7	77.9	103.9	93.1	94.7		
	October	57.6	190.1	69.3	106.7	105.8	106.2		
	November	52.6	182.4	63.6	113.5	106.7	107.5		
•	December	54.0	189.4	65.7	133.1	117.8	118.6		
1977	January	59.4	201.8	71.6	143.2	124.3	125.4		
13//	February	63.4	199.7	76.4	130.6	130.4	131.0		
	March	69.8	200.4	83.4	129.3	132.1	132.5		
	April	65.3	190.7	76.5	128.1	131.0	131.1		
	May	69.1	191.3	80.5	128.1	133.9	R133.5		
	June	69.2	189.1	79.6	125.6	135.1	134.2		
	July	72.1	187.7	81.8	134.5	135.9	135.8		
	August	71.1	185.5	81.5	133.9	134.0	134.0		
	September	71.8	194.7	84.0	131.8	135.7	135.4		
	October	74.2	211.9	87.4	133.9	135.6	135.6		
	November	74.2 74.3	214.2	87.1	134.9	141.7	141.5		
	December	73.9	216.5	86.8	138.5	132.2	133.1		
1978	January	74.0	211.1	86.4	150.4	138.2	139.2		
	February	76.3	212.7	89.3	158.2	141.5	142.8		
	March	79.3	212.5	90.1	149.7	144.9	145.7		
	April	80.3	222.0	92.5	R149.8	147.7	148.2		
	May	81.2	218.5	92.4	149.0	149.7	150.0		

R=Revised data.

^{*}Represents direct sales by pipeline companies to industrial users. Does not include sales to industrial users by resellers.
**Includes the cost of gas to the distributing utility at entrance of distribution system or point of receipt.

Source: Federal Power Commission Form 11, "Natural Gas Pipeline Company Monthly Statement."

Natural Gas (Continued)

Intrastate Natural Gas Prices for Selected States by Type of Contract*

	Cali	fornia	Kans	as	Louisi	ana	Oklah	oma Texas		as	
	New Contracts	Renego- tiated or Amended	New Contracts	Renego- tiated or Amended	New Contracts	Renego- tiated or Amended	New Contracts	Renego- tiated or Amended	New Contracts	Renego- tiated or Amended	
•					Cents per	thousand o	ubic feet				
1975											
January February March April May June July August September October November December	75.00 	76.89 53.68 65.51 75.00 86.00 	55.30 		98.04 128.68 115.78 149.78 126.80 130.91 117.22 132.87 121.89 75.16 138.42 139.64	102.96 113.06 125.89 134.81 123.53 129.57 125.63 114.20 141.23 117.60 71.65 131.92	95.99 97.30 107.70 132.58 129.31 94.22 133.87 136.77 143.73 143.09 140.61 132.50	76.03 64.49 55.05 87.79 106.56 120.29 114.62 121.21 106.69 144.14 133.15 153.86	139.90 154.72 96.66 160.09 156.72 165.00 183.22 151.87 169.87 168.10 149.43 187.20	164.04 163.11 97.50 176.32 158.59 187.54 178.22 132.50 180.77 187.30 182.17 140.90	
1976											
January February March April May June July August September October November December	 195.00 122.00 	83.97 40.00 — 60.39 — 117.15 97.38 — 97.47	103.81 — 150.36 150.00 180.39 114.45 137.57 — — 150.82 160.73	84.54 109.68 — 149.84 150.82 150.83 — 125.68 111.72 144.21	138.75 125.00 145.66 142.99 125.54 147.11 127.55 138.70 164.10 144.64 —	131.23 145.30 155.39 154.05 106.05 137.67 141.71 164.23 156.39 149.91 131.91 152.45	149.87 133.72 162.83 162.12 156.35 169.56 148.20 151.81 164.85 163.48 162.57 167.55	109.39 146.71 168.57 148.30 164.02 168.14 95.00 171.49 172.00 161.16 90.73 175.98	181.05 176.63 178.70 202.60 154.00 178.01 151.19 157.98 184.07 196.58 186.80 198.71	193.31 191.54 176.44 152.95 197.22 192.98 176.23 198.81 197.66 188.80 182.82 202.54	
1977				٠							
January February March April May June July August September October November December	 119.79 135.00	105.58 107.27 116.28 — 107.20 112.21 139.02 — 136.15 124.40	155.49 121.66 148.18 137.10 119.00 91.49 88.57 131.97 — 150.39 147.09		155.82 141.33 219.43 216.41 197.53 180.21 174.90 177.99 163.72 201.26 —	137.65 120.84 208.97 150.35 158.97 169.64 166.66 162.49 142.88 182.97 154.23	172.35 147.86 168.57 165.61 156.52 166.69 172.95 164.33 171.78 148.44 166.26 160.32	167.49 131.27 168.28 167.89 171.09 169.51 168.25 158.46 172.70 175.01 174.78 173.49	193.36 185.55 197.14 192.22 204.06 194.54 206.96 188.96 167.14 202.73 186.94 207.65	204.06 203.22 190.83 205.44 201.27 206.41 202.46 183.57 212.44 204.08 199.11 203.32	
1978		•									
January February March	=	173.80 — —	137.50 — —	184.32 163.54 203.60	194.38 180.37 198.62	202.88 181.40 182.35	169.22 165.35 175.48	180.65 178.74 177.37	168.54 163.94 170.64	211.52 211.32 196.60	

^{*}Prices are for FERC jurisdictional natural gas companies selling more than 1 billion cubic feet per year in interstate commerce. Source: Federal Power Commision Form 45, "Summary of Intrastate Natural Gas Prices."

Natural Gas (Continued)

Average Retail Prices for Natural Gas Sold to Residential Customers for Heating Use

		Cents per thousand cubic feet
1975	January February March April May June July August September October November December	141.2 144.7 146.1 150.6 153.7 155.7 154.7 155.4 159.4 160.6 166.2 170.2
1976	January February March April May June July August September October November December AVERAGE	171.4 175.2 177.0 178.4 180.8 183.2 184.5 185.8 191.2 195.0 198.3 208.3
1977	January February March April May June July August September October November December	213.8 217.0 219.9 223.7 227.0 227.3 229.9 230.1 230.4 235.1 238.4 237.3
1978	January February March April May June	241.6 243.0 247.0 248.7 255.2 254.2

Source: Bureau of Labor Statistics.

Utility Fossil Fuels

U.S. Average Delivered Prices of Coal at Utilities

	•	Contract	Spot
		Dollars per sho	ort ton
1975	January	14.57	28.12
	February	15.71	25.93
	March	15.68	25.02
	April	15.88	24.52
	May	16.45	23.78
	June	16.40	23.36
	July	16.06	22.35
	August	16.65	22.39
	September	16.76	22.46
	October	16.72	22.52
	November	16.79	22.50
	December	16.90	22.40
1976	January	16.53	21.75
	February	17.04	21.23
	March	17.65	21.36
	April	17.76	21.43
	May	18.12	21.17
	June	18.05	20.88
	July	17. 9 3	21.00
	August	18.19	21.35
	September	18.55	21.46
	October	18.49	21.28
	November	18.26	21.56
	December	18.15	21.49
1977	January	17.87	21.93
	February	18.28	22.71
	March	18.75	23.27
	April	18.82	22.41
	May .	18.97	23.73
	June	19.03	24.62
	July	19.35	25.13
	August	18.95	24.73
	September	19.75	26.14
	October	20.31	26.83
	November	20.51	27.01
	December	20.49	28.01
1978	January	16.94	30.27
	February	16.50	30.50
	March	18.59	31.52
	April	21.43	30.42

Source: Federal Power Commission Form 423.

Utility Fossil Fuels (Continued)

COST OF FOSSIL FUELS DELIVERED TO STEAM ELECTRIC UTILITY PLANTS

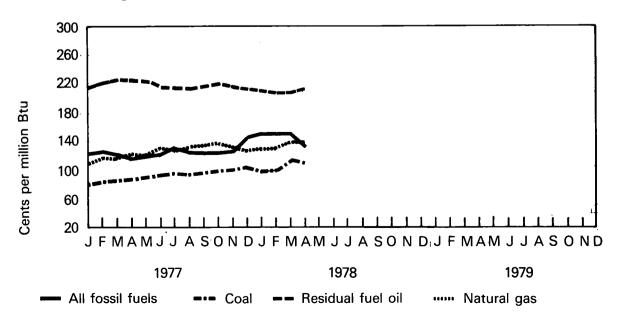
All Fossil Fuels*

					1977							197	8	
Region	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	ОСТ	NOV	DEC	JAN	FEB	MAR	APR
						C	ents pe	r million	Btu					
New England	225.3	213.9	215.1	213.3	209.9	206.7	206.8	205.2	202.1	198.9	196.5	196.5	193.9	199.0
Middle Atlantic	152.2	149.9	149.4	152.1	167.9	158.8	151.3	144.8	142.5	180.2	203.6	199.5	182.0	153.2
East North Central	104.0	102.6	103.9	107.3	109.7	105.2	106.5	108.8	111.6	134.8	172.2	184.6	172.3	128.5
West North Central	82.0	79.0	82.5	84.0	87.9	86.2	86.5	89.2	87.4	99.1	102.4	110.9	106.1	95.4
South Atlantic	137.3	132.7	133.8	137.9	148.9	146.6	143.7	137.6	137.1	156.2	169.0	172.8	169.3	147.5
East South Central	100.1	100.3	102.3	104.5	110.4	106.6	109.9	112.0	113.0	125.5	140.6	147.1	145.2	126.6
West South Central	116.9	117.5	117.2	124.3	123.2	122.5	123.2	121.3	119.8	120.9	129.4	130.9	124.7	133.8
Mountain	60.4	64.3	68.8	69.9	71.8	72.6	73.7	74.7	68.4	73.3	67.6	64.8	67.1	66.0
Pacific	209.8	217.6	219.0	212.6	221.2	223.8	221.2	238.7	221.9	226.8	221.4	216.8	225.8	232.8
NATIONAL AVG.	123.5	122.0	123.1	125.1	133.2	129.4	128.6	127.5	125.6	144.0	153.4	154.3	151.6	135.4

R=Revised data.

Source: Federal Power Commission Form 423.

National Average



^{*}See Explanatory Note 20.

Coal

	1977						1978							
Region	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	ОСТ	NOV	DEC	JAN	FEB	MAR	APR
		Cents per million Btu												
New England Middle Atlantic East North Central	127.5 100.8 94.1	127.9 102.5 93.9	128.1 103.1 94.3	130.1 107.4 95.5	130.6 111.7 99.8	133.1 107.0 97.3	134.0 106.0 99.5	122.4 104.6 101.7	136.6 105.0 104.7	137.5 127.1 116.3	143.2 122.4 134.9	143.5 116.2 138.5	150.7 124.3 137.3	153.4 116.4 117.8
West North Central South Atlantic	71.5 108.1	72.5 108.4	75.5 110.9	77.0 113.9	77.9 119.2	77.4 115.9	78.5 121.1	84.3 122.0	81.2 122.8	88.7 133.0	88.5 129.4	94.0 129.4	93.5 139.6	87.6 130.6
East South Central West South Central Mountain	93.6 64.3 41.1	96.5 60.2 42.4	95.8 60.3 46.3	95.0 63.9 47.4	99.9 59.2 43.0	98.4 62.1 50.1	103.1 64.4 47.5	104.3 65.2 51.4	107.8 72.0 48.8	114.0 68.7 47.9	118.3 74.0 42.2	131.5 83.5 45.6	136.0 67.6 46.4	123.1 67.0 48.1
Pacific NATIONAL AVG.	74.0 89.9	70.8 90.1	70.9 91.8	71.2 93.3	71.7 96.2	71.1 94.3	71.3 98.0	71.4 100.5	70.6 101.7	70.5 106.8	71.5 99.6	71.2 102.1	75.0 113.4	78.8 110.9
						23	20.0		,		20.0			
Residual Fuel Oi	1*													
	_				19	977 						197	78	
Region	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR
						C	ents per	r million	Btu					
New England Middle Atlantic East North Central West North Central	231.7 237.2 257.8 205.5	218.5 230.8 256.3 298.7	223.4 227.7 250.9 193.6	216.2 223.1 248.6 186.6	212.5 220.5 247.1 179.0	211.3 218.5 241.6 185.0	210.2 220.8 264.7 186.9	210.8 225.8 256.5 185.3	206.8 213.2 247.5 187.2	202.3 209.7 248.3 174.3	199.0 208.4 256.4 177.8	193.5 207.4 254.1 183.0	195.3 207.8 262.0 189.3	201.0 209.5 260.0 179.4
South Atlantic East South Central West South Central	222.8 180.4 201.9	217.8 180.5 200.3	211.7 175.7 198.3	210.1 177.7 194.3	207.2 175.9 187.6	199.2 178.3 188.5	211.0 177.7 184.2	211.4 186.5 192.6	209.3 183.8 192.2	205.1 185.2 191.6	203.6 180.7 184.7	198.7 182.0 183.2	198.4 182.8 182.0	198.2 180.6 187.7
Mountain Pacific	220.9 232.1	220.6 235.8	224.9 235.2	215.3 235.7	232.5 240.0	230.7 240.1	216.4 240.6	214.3 241.6	222.9 241.3	223.3 242.2	218.9 243.4	221.3 242.7	226.1 250.6	212.3 256.5
NATIONAL AVG.	228.0	226.2	227.7	217.8	217.0	213.0	218.3	220.3	217.2	215.0	211.3	207.8	209.6	213.1
Natural Gas**														
					19	77						197	/8	
Region	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR
						C	ents per	million	Btu					
New England Middle Atlantic East North Central	200.1 155.9 170.6	200.1 155.4 184.7	195.9 154.7 176.7	193.9 144.2 177.3	185.8 165.5 183.5	187.2 162.4 185.9	188.1 165.1 183.7	185.3 162.6 182.3	187.9 154.0 168.4	198.2 155.0 176.2	222.1 153.9 168.4	222.1 159.8 269.3	182.1 159.3 338.6	184.2 161.5 190.6
West North Central South Atlantic East South Central West South Central	88.8 93.6 157.8 111.2	96.0 85.7 154.7 113.7	102.9 76.2 139.7 116.5	104.8 74.4 134.3 122.1	106.7 91.1 148.5 122.5	106.8 100.9 149.9 123.7	109.0 91.7 135.7 123.7	103.8 94.2 138.6 122.5	110.3 102.5 156.0 120.1	117.3 94.6 145.9 120.2	109.4 93.9 139.1 129.0	119.4 98.4 150.1 128.5	122.6 97.9 158.4 124.9	118.0 102.9 150.2
Mountain Pacific	129.1 181.0	134.9 204.5	134.4 208.9	132.9 200.5	133.3 211.0	130.7 218.8	149.8 217.9	136.9 219.7	155.5 220.6	159.2 225.4	133.8 212.4	139.2 208.6	146.5 220.5	137.7 127.5 220.1

121.1 125.6 125.6 130.5 131.7 135.4 138.4 139.4 134.9 130.6 133.3 135.1 140.2 140.2

NATIONAL AVG.

^{*}See Explanatory Note 20.

**Includes small quantities of coke oven gas, refinery gas, and blast furnace gas.

R=Revised data.

Source: Federal Power Commission Form 423.

International

Petroleum Consumption

Total International Energy Agency petroleum consumption was 3.7 percent higher in April 1978 compared to April 1977 reflecting colder than normal weather conditions especially in the Northern Hemisphere.

Consumption in Western Europe's four major industrialized countries during April 1978 was 3.6 percent more than April 1977. Year to date consumption for West Germany, France, United Kingdom, and Italy increased 6.7, 5.2, 4.1, and 1.7 percent, respectively, over the comparable periods last year.

Crude Oil Production

World Crude oil production rose slightly in June to 58.9 million barrels per day, but was 1 percent less than June 1977 production. OPEC production rose 0.9 million barrels per day in June to 29 million barrels per day, but was 6.4 percent less than June 1977. Increases in June were experienced by countries that produce crude oils having high gasoline yields. During June, OPEC shut-in capacity dropped 10.4 percent to 7.7 million barrels per day.







Petroleum Consumption

Petroleum Consumption for Major Free World Industrialized Countries

		Total IEA*	Japan	West Germany	France**	United Kingdom	Canada	Italy***
				Thousands	s of barrels p	er day		
1973	AVG.	33,600	5,000	2,693	2,219	1,974	1,597	1,525
1974	AVG.	32,390	4,872	2,408	2,094	1,857	1,630	1,521
1975	AVG.	31,235	4,568	2,319	1,925	1,633	1,595	1,468
1976	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	35,100 34,400 34,300 31,500 29,900 31,300 31,100 31,100 32,200 32,300 35,900 39,100	4,941 5,246 5,165 4,526 4,218 4,429 4,416 4,461 4,517 4,523 5,160 5,846	2,464 2,497 2,747 2,339 2,320 2,393 2,624 2,515 2,521 2,391 2,700 2,571	2,436 2,486 2,381 2,100 1,796 1,593 1,629 1,668 1,974 1,904 2,236 2,712	1,679 1,865 1,879 1,716 1,417 1,416 1,346 1,296 1,501 1,568 1,750 1,869	1,785 1,754 1,747 1,518 1,509 1,560 1,531 1,585 1,514 1,560 1,822 2,008	1,775 1,743 1,641 1,423 1,253 1,236 1,355 1,372 1,604 1,464 1,393 1,779
	AVG.	33,180	4,786	2,507	2,075 2,519	1,627 1,830	1,658 1,797	1,503 1,696
1977	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec AVG.	37,700 38,600 35,000 32,800 31,300 32,900 31,800 32,700 33,400 33,300 34,300 37,900	5,433 6,025 5,539 4,714 4,314 4,484 4,716 4,709 4,742 4,664 5,093 5,800 5,015	2,393 2,446 2,523 2,431 2,364 2,475 2,382 2,469 2,567 2,324 2,649 2,719 2,478	2,386 2,109 2,043 1,846 1,715 1,349 1,390 1,783 1,882 2,181 2,512	1,844 1,818 1,670 1,545 1,477 1,321 1,371 1,580 1,570 1,925 1,903	1,919 1,664 1,523 1,520 1,631 1,499 1,689 1,539 1,631 1,683 1,896 1,665	1,823 1,573 1,326 1,268 1,340 1,251 1,140 1,502 1,405 1,605 1,817
1978	Jan Feb Mar Apr May June AVG . (Year to date)	36,700 R39,900 R36,900 34,000 NA NA 36,800	R5,245 5,979 R5,598 4,802 4,317 NA 5,175	2,461 3,013 2,610 2,577 2,354 NA 2,595	2,646 2,601 2,237 R2,045 2,134 1,678 2,221	1,852 1,929 R1,870 1,805 NA NA	1,815 1,976 1,697 NA NA NA	1,755 1,859 1,570 1,328 1,303 NA 1,559

Note: Total IEA data represent domestic demand in the United States and sales of petroleum products for all other members. Sales exclude refinery fuel, refinery losses, and ocean bunkers. Experience has shown that this total IEA quantity is between 93 and 95 percent of total IEA consumption.

Source: Central Intelligence Agency, National Foreign Assessment Center, International Energy Statistical Review, 9 August 1978.

^{*}The 19 signatory nations of the International Energy Agency (IEA) are: Austria, Belgium, Canada, Denmark, Federal Republic of Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

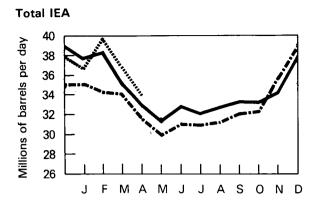
^{**}Not a member of IEA.

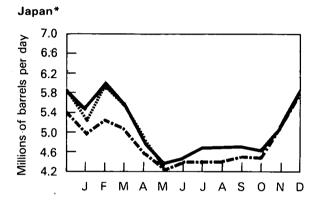
^{***}Principal products only.

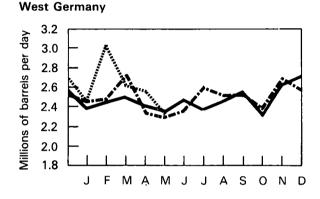
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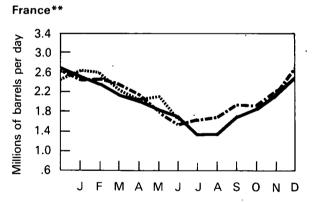
R=Revised data.

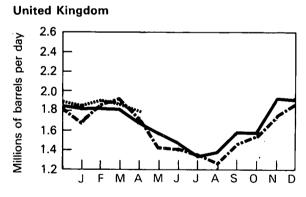
Petroleum Consumption

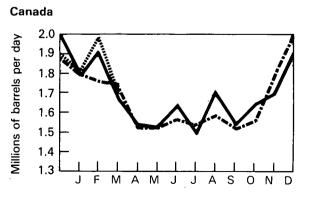


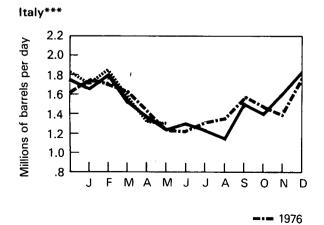












- *Excludes liquefied petroleum gases and condensates.
- **Not a member of IEA.
- ***Principal products only.
 - †Excludes the United States.

1977

····· 1978

Crude Oil Production

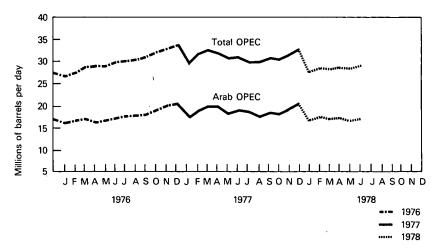
Crude Oil Production for Major Petroleum Exporting Countries-June 1978

Country				Productio	on			Maximum Sustainable Production Capacity	Production Shut in
	1972 Year	1973 Year	1974 Year	1975 Year	1976 Year	1977 Year	1978 June**	1978 June	1978 June
			Th	ousands of	barrels per c	lay			Percent
Algeria Iraq Kuwait* Libya Qatar Saudi Arabia* United Arab Emirates	1,040 1,465 3,283 2,239 482 6,016 1,202	1,070 2,020 3,020 2,175 570 7,595 1,535	960 1,970 2,545 1,520 520 8,480 1,680	960 2,260 2,085 1,480 440 7,075 1,665	990 2,415 2,145 1,935 495 8,575 1,935	1,040 2,330 1,970 2,080 430 9,200 2,010	1,000 2,400 1,940 2,000 450 7,490 1,850	1,080 3,000 3,300 2,300 600 10,400 2,375	7.4 20.0 41.2 13.4 25.0 28.0 22.1
Subtotal: Arab OPEC	15,727	17,985	17,675	15,965	18,490	19,060	17,130	23,055	25.7
Ecuador Gabon Indonesia Iran Nigeria Venezuela	78 125 1,080 5,023 1,815 3,219	210 150 1,340 5,860 2,055 3,365	175 200 1,375 6,020 2,255 2,975	160 225 1,305 5,350 1,785 2,345	185 225 1,505 5,885 2,070 2,295	180 230 1,690 5,660 2,100 2,240	200 220 1,650 5,630 1,890 2,320	225 225 1,700 6,500 2,300 2,600	11.1 2.2 2.9 13.4 17.8 10.8
Subtotal: Non-Arab	11,340	12,980	13,000	11,170	12,165	12,100	11,910	13,550	12.1
OPEC									
TOTAL OPEC	27,067	30,965	30,675	27,135	30,655	31,160	29,040	36,605	20.7
Canada Mexico	1,540 440	1,800 465	1,695 580	1,460 720	1,300 850	1,320 980	1,530 1,170	1,800 1,500	15.0 22.0
TOTAL OPEC, Canada, Mexico	29,047	33,230	32,950	29,315	32,805	33,460	31,740	39,905	20.5
TOTAL WORLD	50,550	55,755	55,875	52,990	57,340	59,520	58,900		

^{*}Includes about one-half of the former Kuwait-Saudi Arabia Neutral Zone. Production in May 1978 amounted to approximately 390,000 barrels per day.

Sources: Central Intelligence Agency, National Foreign Assessment Center, *International Energy Statistical Review*, 9 August 1978, National Energy Board of Canada, and U.S. Department of Energy.

OPEC Countries Crude Oil Production



^{**}Estimated.

Definitions

Base Production Control Level

- 1. Prior to February 1, 1976: the total number of barrels of domestic crude oil produced and sold from a particular property in the same month of 1972. If domestic crude oil was not produced and sold from that property in every month of 1972, the total number of barrels of domestic crude oil produced and sold from that property in 1972, divided by 12.
- 2. Effective February 1, 1976: the total number of barrels of old crude oil produced and sold from the property during calendar year 1975, divided by 365, and multiplied by the number of days in the particular month during 1975. A producer may elect to use the total number of barrels of crude oil produced and sold from the property during calendar year 1972, divided by 366, and multiplied by the number of days in the particular month during 1972.

Ceiling Price

The maximum permissible selling price, prior to February 1, 1976, for a particular grade of domestic crude oil in a particular field is the May 15, 1973, posted price plus \$1.35 per barrel.

Controlled Crude Oil

Crude oil that was domestically produced prior to February 1, 1976, subject to the ceiling price for crude oil. For a particular property which is not a stripper well lease, the volume of controlled oil equals the base production control level minus an amount of released oil equal to the new oil production from that property.

Crude Oil Domestic Production

Domestic crude oil production is measured at the wellhead and includes lease condensate, which is a natural gas liquid recovered from lease separators or field facilities.

Crude Oil Entitlement Value

The average value a refiner receives from the entitlement program for each incremental barrel of imported crude oil. It is calculated by multiplying the entitlement price by the National Old Oil Supply Ratio for November 1974 through January 1976 and by the National Domestic Crude Oil Supply Ratio for February 1976 forward.

Crude Oil Imports

The volume of crude oil imported into the 50 States and the District of Columbia, including imports from U.S. territories, but excluding imports of crude oil into the Hawaiian Foreign Trade Zone.

Crude Oil Input to Refineries

Total crude oil input to crude oil distillation units and other units for processing.

Crude Oil Stocks

Stocks of crude oil and lease condensate held at refineries, pipeline terminals, and on leases.

Cumulative Deficiency

A measure of the cumulative deficit of production below the base production control level after the first month in which new oil was produced and sold from a specific property.

Dealer Tankwagon (DTW) Price

The price at which a dealer purchases gasoline from a distributor or a jobber.

Distillate Fuel Oil

The lighter fuel oils distilled off during the refining process. Included are products known as ASTM grades Nos. 1 and 2 heating oils, diesel fuels, and No. 4 fuel oil. The major uses of distillate fuel oils include heating, fuel for on- and off-highway diesel engines, and railroad diesel fuel. Minor quantities of distillate fuel oils produced and/or held as stocks at natural gas processing plants are not included in this series.

Domestic Demand for Specific Refined Petroleum Products

A calculated value, computed as domestic production plus net imports (imports less exports), less the net increase in primary stocks. It, therefore, represents the total disappearance of refined products from primary supplies. (See definition for Domestic Demand for Total Refined Petroleum Products.)

Domestic Demand for Total Refined Petroleum Products

Total domestic demand for petroleum products is calculated as inputs to refineries, plus estimated refinery gain, plus hydrogen input, plus natural gas plant liquids production, plus direct use of crude as fuel, plus product imports, less product exports, plus or minus stock change of products. (See definition for Domestic Demand for Specific Refined Petroleum Products.)

Electricity Production

Production at electric utilities only. Does not include industrial electricity generation.

Entitlement Position

The monthly entitlement position of a refiner indicates whether he bought or sold entitlements in that month. An entitlement is the right to process "deemed old oil," which is the sum of a refiner's receipts of "old" oil and a fraction of his receipts of "upper tier" crude oil. This fraction is set monthly by ERA. A refiner must purchase entitlements for the amount of his "deemed old oil" receipts in excess of the national domestic crude oil supply ratio (NDCOSR). The NDCOSR, as calculated by ERA, reflects the differences in costs to refiners of "old" oil, "upper tier" crude oil, and imported crude oil.

Entitlement Price

The price of an entitlement, fixed by ERA, is the exact differential as reported for the month between the weighted average delivered cost per barrel to refiners of both imported crude oil and stripper crude oil, and the weighted average delivered cost per barrel to refiners of "old oil," less 21 cents.

Firm Natural Gas Service

High priority gas service in which the pipeline company is under contract to deliver a specified volume of gas to the customer on a non-interruptible basis. Residential and small commercial facilities usually fall into this category.

Full Serve

Motor vehicle services are provided by an attendant, such as: pumping gas, washing windows, checking under the hood, checking tire pressure, etc.

Full Service Station

A service station selling motor fuels and oils, tires, batteries and accessories (TBA), and performing motor vehicle repairs.

Interruptible Natural Gas Service

Low priority gas service in which the pipeline company has the contractual option to temporarily terminate deliveries to customers by reason of claim of firm service customers or higher priority users. Large commercial facilities, industrial users, and electric utilities usually fall into this category.

Jet Fuel

Includes both naphtha-type and kerosene-type fuels meeting standards for use in aircraft turbine engines. Although most jet fuel is used in aircraft, some is used for other purposes, such as for generating electricity in gas turbines.

Landed Cost

The cost of imported crude oil equal to actual cost of the crude oil at point of origin plus transportation cost to the United States.

Limited Work Authorization

A Limited Work Authorization (LWA) may be granted by the Atomic Safety and Licensing Board of the Nuclear Regulatory Commission to an applicant who wants to construct a nuclear powerplant providing that the project has been cleared for all requirements of the National Environmental Protection Act and that the geologic and topographic suitability of the reactor site has been found satisfactory. The LWA allows an applicant to proceed with site excavation, install temporary construction and service facilities, construct service roads, and erect structures and components not subject to normal quality assurance inspections. It may save a utility from 6 to 8 months in total construction time. However, because the ultimate approval of a construction permit is based on all evidence

revealed during the licensing hearings, the successful award of an LWA is no guarantee that a construction permit will also be granted.

Line Miles of Seismic Exploration

The distance along the earth's surface that is covered by seismic traverses.

Lower Tier Crude Oil

Old crude oil.

Lower Tier Ceiling Price Determination

The lower tier ceiling price for a particular grade of domestic crude oil in a particular field is the sum of (1) the highest posted price at 6 a.m., local time, May 15, 1973, for transactions in that grade of crude oil in that field; or if there was no posted price in that field for that grade of domestic crude oil, the related price for that grade of domestic crude oil which is most similar in kind and quality in the nearest field for which prices were posted; and (2) the amount mandated in the Monthly Price Adjustment Schedules published by ERA in the Federal Energy Guidelines (Part 212.77-13847 Appendix).

Major Brand

Lundberg Survey, Inc., defines major brand as an integrated company that produces, refines, transports, and markets in Interstate Commerce under its own brand(s) in 10 or more States.

Motor Gasoline Production

Total production of motor gasoline by refineries, measured at the refinery outlet. Relatively small quantities of motor gasoline are produced at natural gas processing plants, but these quantities are not included.

Motor Gasoline Stocks

Primary motor gasoline stocks held by gasoline producers. Stocks at natural gas processing plants are not included.

National Domestic Crude Oil Supply Ratio

Old oil receipts adjusted for upper-tier receipts, small refiner bias, and other minor adjustments, divided by crude runs to stills adjusted for residual fuel entitlements.

National Old Oil Supply Ratio

Old oil receipts, adjusted for small refiner bias and exemptions, divided by crude runs to stills adjusted for entitlements issued for imported refined products.

Natural Gas Liquids (NGL)

Products obtained from natural gasoline plants, cycling plants and fractionators after processing the natural gas. Included are ethane, liquefied petroleum (LP) gases (propane, butane, and propane-butane mixtures), natural gasoline, plant condensate, and minor quantities of finished products such as gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

New Crude Oil

- 1. Prior to February 1, 1976: the total number of barrels of domestic crude oil produced and sold in a specific month, less the base production control for that month and less the current cumulative deficiency.
- 2. Effective February 1, 1976: the total number of barrels of domestic crude oil produced and sold in a specific month, less the property's base production control level for that month and less the current cumulative deficiency since February 1, 1976.

Nonbranded Independent Marketer

A firm which is engaged in the marketing or distribution of refined petroleum products, but which (1) is not a refiner, (2) is not a firm which controls, is controlled by, is under common control with, or is affiliated with a refiner (other than by means of a supply contract), and (3) is not a branded independent marketer.

Old Crude Oil

- 1. Prior to February 1, 1976: the total number of barrels of crude oil produced and sold from a property in a specific month, less the total number of barrels of new crude oil for that property in that month and less the total number of barrels of released crude oil for that property in that month.
- 2. Effective February 1, 1976: the total number of barrels of crude oil produced and sold from a property in a specific month, less the total number of barrels of new crude oil for that property in that month.

Primary Stocks of Refined Petroleum Products

Stocks held at refineries, bulk terminals, and pipelines. They do not include stocks held in secondary storage facilities, such as those held by jobbers, dealers, independent marketers, and consumers.

Property

Prior to August 26, 1976, a property was defined as the right to produce domestic crude oil, which arises from a lease or from a fee interest. This definition was interpreted to apply only to a surface lease. In August 1976 the definition of a property was changed so that a producer may treat as a separate property each separate and distinct producing reservoir subject to the same right to produce crude oil, provided that such reservoir is recognized by the appropriate governmental regulatory authority as a producing formation that is separate and distinct from, and not in communication with, any other producing formation. Although this new definition was not implemented until August 26, 1976, it was made effective retroactively to February 1, 1976. (F.R. 36171, August 26, 1976)

Refined Petroleum Products Imports

Imports (into the 50 States and the District of Columbia) of motor gasoline, naphtha-type jet fuel, kerosene type jet fuel, kerosene, distillate fuel oil, residual fuel oil, liquefied petroleum gases, petrochemical feedstocks, special naphtha, lubricants, waxes, asphalt, plant condensate, and

unfinished oils. Included are imports of refined products for bonded and military use, and imports from U.S. territories and the Hawaiian Foreign Trade Zone.

Refiner Acquisition Cost

The cost to the refiner, including transportation and fees, of crude petroleum. The composite cost is the average of domestic and imported crude costs and represents the amount of crude cost which refiners may pass on to their customers.

Released Crude Oil

An amount of crude oil produced from a property in a particular month prior to February 1, 1976, which is equal to the total number of barrels of new crude oil produced and sold from that property in that month. The amount of released crude oil for a property in a particular month shall not exceed the base production control level for that property in that month.

Residual Fuel Oil

The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are boiled off in refinery operations. Included are products known as ASTM grades Nos. 5 and 6 oil, heavy diesel oil, Navy Special Oil, Bunker C oil, and acid sludge and pitch used as refinery fuels. Residual fuel oil is used for the production of electric power, for heating, and for various industrial purposes.

Rotary Rig

Machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Self Serve

Motor vehicle services are not provided by attendants.

Separative Work Unit (SWU)

The measure of work required to produce enriched uranium from natural uranium. Enrichment plants separate natural uranium feed material into two groups, an enriched product group with a higher percentage of U-235 than the feed material and a depleted tails group with a lower percentage of U-235 than the feed material. To produce 1 kilogram of enriched uranium containing 2.8 percent U-235, and a depleted tails assay containing 0.3 percent U-235, it requires 6 kilograms of natural uranium feed and 3 kilograms of separative work units (3 SWU).

Startup Test Phase of Nuclear Powerplant

A nuclear powerplant that has been licensed by the Nuclear Regulatory Commission to operate, but that is in the initial testing phase during which production of electricity may not be continuous. In general, when the electric utility is satisfied with the plant's performance, it formally accepts the plant from the manufacturer, and places it in "commercial operation" status. A request is then submitted to the appropriate utility rate commission to include the powerplant in the rate base calculation.

Stripper Well Property

A property whose average daily production of crude oil per well (excluding condensate recovered in nonassociated production) did not exceed 10 barrels per day during any preceding consecutive 12-month period beginning after December 31, 1972.

Synthetic Natural Gas (SNG)

A product resulting from the manufacture, conversion, or reforming of petroleum hydrocarbons which may be easily substituted for or interchanged with pipeline quality natural gas.

Uncontrolled Crude Oil

That portion of domestic crude oil production including new, released, and stripper oil which, before February 1, 1976, could be sold at a price exceeding the ceiling price.

Unrecouped Costs

Costs which have not been recovered in the current month's product prices but which have been "banked" for later use.

Upper Tier Crude Oil

Effective February 1, 1976, upper tier crude oil included new crude oil and crude oil produced from a stripper well lease. Effective September 1, 1976, upper tier crude oil includes new crude oil only.

Upper Tier Ceiling Price Determination

The upper tier ceiling price for a particular grade of domestic crude oil in a particular field is (1) the highest posted price on September 30, 1975, for transactions in that grade of crude oil in that field in September 1975, or if there was no posted price in that field for that grade of domestic crude oil, the related price for that grade of domestic crude oil which is most similar in kind and quality in the nearest field for which prices were posted; less (2) the amount mandated in the Monthly Price Adjustment Schedules published by ERA in the Federal Energy Guidelines (Part 212.77 .13847 Appendix).

Well

A hole drilled for the purpose of finding or producing crude oil or natural gas or providing services related to the production of crude oil or natural gas. Wells are classified as oil wells, gas wells, dry holes, stratigraphic tests, or service wells. This is a standard definition of the American Petroleum Institute.

Explanatory Notes

- 1. Domestic production of energy includes production of crude oil and lease condensate, natural gas (wet), coal (anthracite, bituminous, and lignite), electricity output from hydroelectric and nuclear powerplants and industrial hydroelectric power production as well as geothermal power. The volumetric data were converted to approximate heat contents (Btu-values) of the various energy sources using conversion factors listed in the Units of Measure.
- U.S. imports of fossil fuels include imports of crude oil, refined petroleum products, natural gas (dry), coal (bituminous and lignite) and coke. Does not include imports of petroleum for the Strategic Petroleum Reserve.
- 3. Domestic consumption includes domestic demand for refined petroleum products, consumption of coal (anthracite, bituminous, and lignite, and net coke imports) and natural gas (dry), electricity output from hydroelectric and nuclear powerplants, industrial hydroelectric power production, net imports of electric power, and production of geothermal power. Approximate heat contents (Btu-values) were derived using conversion factors listed in the Units of Measure. Electricity net imports were converted using the Btu-content of hydroelectric power. 1978 electricity net imports were estimated on the basis of the net import level for 1977.
- 4. U.S. exports of fossil fuels include exports of coal (bituminous and lignite), coke, crude oil, refined petroleum products, and natural gas (dry).
- 5. Domestic demand figures for natural gas liquids (NGL) as reported by BOM and reproduced in this publication do not include amounts utilized by refineries for blending purposes in the production of finished products, principally gasoline. Use of NGL at refineries is reported in a separate column. The production series cited in this publication shows both NGL produced at processing plants and liquefied gases produced at refineries (LRG). NGL produced at refineries is extracted from crude oil and hence, to avoid double counting, should not be included in calculations of total U.S. production of petroleum liquids. The stock series shown in this volume includes natural gas liquids held as stocks at both natural gas processing plants and at refineries and LRG held at refineries.
- 6. Domestic consumption of natural gas includes the quantities sold to consumers plus the gas used for plant and pipeline fuel, after the natural gas liquids have been extracted. All monthly consumption data are estimated. Marketed production of natural gas includes gross withdrawals from the ground less the quantities used for repressuring and the amount vented and flared, before the natural gas liquids have been extracted.
- 7. The Federal Energy Administration and Federal Power Commission began the coordinated collection and compilation of monthly underground storage information from all underground storage operators in the United States in October 1975. Initial storage information reported was for the month of September 1975. Comparable

monthly information for total U.S. storage operations is not available for prior periods.

The total gas in storage is the total volume of gas (base gas plus working gas) in storage reservoirs as of the end of the month. Base gas is the volume of gas, including all native gas in place at the time of conversion to storage, needed as a permanent inventory to maintain adequate reservoir pressures and deliverability rates throughout the withdrawal season. Base gas includes the volumes which will not be recoverable upon termination of storage operations. Working gas is the volume of gas above the designated base gas level available for withdrawal.

8. Bituminous coal and lignite consumption is calculated by EIA from information provided by the Federal Energy Regulatory Commission, Department of Commerce, and reports from selected manufacturing industries and retailers. Domestic consumption data in this series, therefore, approximate actual consumption. This is in contrast to domestic demand reported for petroleum products, which is a calculated value representing total disappearance from primary supplies.

Bituminous coal and lignite production is calculated from the number of railroad cars loaded at mines, based on the assumption that approximately 60 percent of the coal produced is transported by rail. Production data are estimated by EIA from Association of American Railroads reports of carloadings.

9. Quantities of uranium are measured by various units at different stages in the fuel cycle. At the mill, quantities are usually expressed as pounds or short tons of U₃O₈. After the conversion stage, the units of measure are either metric tons (MT) of UF₆ or metric tons of uranium (MTU). The later designation expresses only the elemental uranium content of UF₆.

Following the enrichment stage, the same units are used, but the U-235 content has been enhanced at the expense of loss of material. At the fabrication stage, UF6 is changed to UO2, and the standard unit of measure is the MTU. We have chosen to present all uranium quantities as MTU; conversion factors to other units are given in the Units of Measure section.

10. The units used to describe power generation at nuclear plants are based on the watt, which is a unit of power. (Power is energy produced per unit of time.) As with fossil-fueled plants, nuclear plants have three design power ratings. The thermal rating (expressed in thermal megawatts) is the rate of heat production by the reactor core. The gross electrical rating (expressed in electrical megawatts, MWe) is the generator capacity at the stated thermal rating of the plant. The net electrical rating (also expressed in MWe) is the power available as input to the electrical grid after subtracting the power needed to operate the plant. (A typical nuclear plant needs 5 percent of its generated electricity for its own operation.)

The electrical energy produced by a plant is expressed either as megawatt hours (MWhe) or kilowatt hours (KWhe). Tables in the nuclear section show generated electricity as average electrical power. This enables a more direct comparison to design capacity and to previous

months' performances. To obtain the quantity of electricity generated during a given time period (in kilowatt hours), multiply the average power level (in kilowatts) by the number of hours during that period.

The energy extracted from uranium fuel is expressed as thermal megawatt days per metric ton of uranium (MWD/MTU). The production of plutonium in the fuel rods is expressed as kilograms of plutonium per metric ton of discharged uranium (kg/MTU).

- 11. The Residential and Commercial Sector consists of housing units, non-manufacturing business establishments (e.g., wholesale and retail businesses), health and educational institutions, and government office buildings. The Industrial Sector is made up of construction, manufacturing, agriculture, and mining establishments. The Transportation Sector consists of both private and public passenger and freight transportation, as well as government transportation, including military operations. The Electric Utilities Sector is made up of privately- and publicly-owned establishments which generate electricity primarily for resale.
- 12. Degree-days relate demand for energy to outdoor air temperature. Cooling degree-days are defined as deviations of the mean daily temperature at a sampling station above a base temperature equal to 65°F by convention. Heating degree-days are deviations of the mean daily temperature below 65°F. For example, if a weather station recorded a mean daily temperature of 78°F, cooling degree-days for that station would be 13 (and heating degree-days, 0). A weather station recording a mean daily temperature of 40°F would report 25 heating degree-days (and 0 cooling degree-days).

There are two degree-day data bases maintained by the National Oceanic and Atmospheric Administration. Weekly degree-day information is based on mean daily temperatures recorded at about 200 major weather stations around the country. Monthly data are based on readings at more than 8,000 weather stations. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Petroleum Administration for Defense (PAD) Districts and into the national average, also using a population weighting method.

Weekly weather reports are available much sooner than the monthly reports, and therefore the degree-day information published in the *Monthly Energy Review* is normally derived from the weekly source.

13. The refiner acquisition cost of domestic crude petroleum is the price paid by refiners for domestic crude petroleum, unfinished oils, and natural gas liquids and includes transportation costs from the well head to the refinery. The refiner acquisition cost of imported crude petroleum is the average landed cost of imported crude petroleum to the refiner and represents the amount which may be passed on to the consumer. It incorporates transportation costs and fees (including the supplemental import fees) and any other costs incurred in purchasing and shipping crude oil to the United States.

- 14. Prior to February 1976, the domestic crude petroleum wellhead price represented an estimate of the average of posted prices; after February 1976, the wellhead price represents an average of first sale prices. For the 2-year period January 1974 through January 1976, the old oil price at the wellhead was originally estimated to be \$5.25 per barrel based on representative postings. This estimate was revised in July 1976 after a survey of crude oil purchasers was implemented and more complete data became available. Estimates of the average old oil price given in the table for months prior to February 1976 are based on prices for old oil reported on new oil leases, and were not derived from a statistically valid sample of old oil leases.
- 15. FOB literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.
- 16. The estimated landed cost of imported crude petroleum from selected countries does not represent the total cost of all imported crude. Prior to March 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude petroleum from countries which export only small amounts to the United States were also excluded. Beginning in March 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.
- 17. The U.S. Department of Energy Regions are defined as follows:
- Region 1—Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island;
- Region 2—New York, New Jersey, Puerto Rico, Virgin Islands;
- Region 3—Pennsylvania, Maryland, West Virginia, Virginia, District of Columbia, Delaware;
- Region 4—Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Canal Zone;
- Region 5—Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio;
- Region 6—Texas, New Mexico, Oklahoma, Arkansas, Louisiana;
- Region 7-Kansas, Missouri, Iowa, Nebraska;
- Region 8—Montana, North Dakota, South Dakota, Wyoming, Utah, Colorado;
- Region 9—California, Nevada, Arizona, Hawaii, Trust Territory of the Pacific Islands, American Samoa, Guam;
- Region 10-Washington, Oregon, Idaho, Alaska.
- 18. The sample survey and method used to derive data for March 1976 rorward differ from those used for prior months. Data for January 1974 through February 1976 are derived from a survey of distributors, and prices and margins are computed as unweighted averages. The average distributor purchase price and average dealer margin for March 1976 forward are for distributors only, whereas the average selling price includes both refiners and distributors. Data for March 1976 forward are computed as sales weighted averages.

- 19. Prior to January 1975, diesel fuel prices were obtained from retail gasoline dealers that also sold diesel fuel. Beginning in January 1975, the diesel fuel survey was expanded to include selected truckstops plus additional retail gasoline dealers that sold diesel fuel. Selling price estimates are based on a survey of 31 cities. Margins are based on a survey of 10 cities.
- 20. The weighted average utility fuel cost for the total United States includes distillate fuel oil delivered to utilities whereas the regional breakdown for residual fuel oil prices represents only No. 6 fuel oil prices.

Units of Measure

Weight

1 metric ton	co ntains	1,000 kilograms or 2,204.62 pounds
1 long ton	contains	2,240 pounds
1 short ton	contains	2,000 pounds

Conversion Factors for Crude Oil

1 barrel contains 42 gallons
1 barrel weighs 0.136 metric tons (0.150 short tons)
1 metric ton contains 7.33 barrels
1 short ton contains 6.65 barrels

Conversion Factors for Uranium

Approximate Heat Content of Various Fuels

	1972	1973	1974	1975	1976	1977-78
Bituminous coal and lignite						
Production Btu/short to	n 24,050,000	24,010,000	23,730,000	23,200,000	23,150,000	22,900,0
Exports Btu/short to	n 27,000,000	27,000,000	27,000,000	27,000,000	27,000,000	27,000,0
Imports Btu/short to		25,000,000	25,000,000	25,000,000	25,000,000	25,000,0
Consumption Btu/short to		23,650,000	23,070,000	22,800,000	22,750,000	22,565,0
Coke Btu/short to		26,000,000	26,000,000	26,000,000	26,000,000	26,000,0
Anthracite Btu/short to	n 25,400,000	25,400,000	25,400,000	25,400,000	25,400,000	25,400,0
Crude petroleum, production Btu/barrel	5,800,000	5,800,000	5,800,000	5,800,000	5,800,000	5,800,0
Petroleum products						
Consumption, average Btu/barrel	5,503,200	5,517,000	5,506,100	5,495,900	5,495,900	5,495,9
Imports Btu/barrel	6,028,349	6,001,364	5,975,463	5,938,220	5,975,452	5,903,1
Exports Btu/barrel	5,700,739	5,724,014	5,809,824	5,713,363	5,696,315	5,779,5
Natural gas liquids Btu/barrel	4,049,256	4,032,483	4,024,000	3,997,000	4,003,600	3,935,2
Natural gas, wet	ot 1,100	1,093	1,097	1,095	1,094	1,0
Natural gas, dry Btu/cubic fo	ot 1,027	1,021	1,024	1,021	1,020	1,0
Hydropower Btu/kWh	10,379	10,389	10,442	10,406	10,406	10,4
Nuclear power Btu/kWh	10,660	10,660	10,660	10,660	10,660	10,6
Geothermal powerBtu/kWh	21,690	21,690	21,690	21,690	21,690	21,6

Petroleum Products:	Btu/barrel
Natural gasoline	4,620,000
Liquefied gases	4,011,000
Gasoline (incl. aviation)	5,248,000
Special naphtha	5,248,000
Jet fuel, naphtha-type	5,355,000
Jet fuel, kerosene-type	5,670,000
Kerosene	5,670,000
Distillate fuel oil	5,825,000
Residual fuel oil	6,287,000
Still gas	6,000,000
Lubricants	6,065,000
Waxes	5,537,000
Petroleum coke	6,024,000
Asphalt and road oil	6,636,000
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